001

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL

5. MINERAL LEASE NO:	6. SURFACE:
ML-46629	State

1A. TYPE OF WORK: DRILL ☑ REENTER ☐ DEEPEN ☐

7. IF INDIAN, ALLOTTEE OR TRIBE NAME:

B. TYPE OF WELL: OIL ☐ GAS ☑ OTHER _____ SINGLE ZONE ☑ MULTIPLE ZONE ☐

8. UNIT or CA AGREEMENT NAME:

2. NAME OF OPERATOR:
National Fuel Corporation

9. WELL NAME and NUMBER:
Horse Point State #43-32

3. ADDRESS OF OPERATOR:
7979 E. Tufts Ave.#815 CITY Denver STATE Co ZIP 80237

PHONE NUMBER:
(303) 220-7772

10. FIELD AND POOL, OR WILDCAT:
~~Horse Point~~ Undesignated

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 510' FEL, 1650 FSL 641248 X 39.46689
AT PROPOSED PRODUCING ZONE: Same 4369668Y -109.35865

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
NESE 32 15S 23E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE:
Location is approximately 56 miles NE of Mack, Colorado

12. COUNTY:
Uintah

13. STATE:
UTAH

15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET)	16. NUMBER OF ACRES IN LEASE:	17. NUMBER OF ACRES ASSIGNED TO THIS WELL:
510'	320	320

18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET)	19. PROPOSED DEPTH:	20. BOND DESCRIPTION:
No other wells on this lease	8,500	Statewide LPM #04127314

21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.):	22. APPROXIMATE DATE WORK WILL START:	23. ESTIMATED DURATION:
7631.5' ungraded, 7640.9' graded	6/21/2004	40 Days to drill and complete

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
17 1/2"	13 3/8"	H-40	48#	150	Class "G"	220 sx	1.15 cu. ft/sk	15.8 ppg
12 1/4"	9 5/8"	J-55	36#	1,650	Class "G"	640 sx	1.61 cu. ft/sk	14.2 ppg
8 3/4"	4 1/2"	N-80	11.6#	8,500	50/50 poz	1500 sx	1.26 cu. ft/sk	14.2 ppg

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
☑ COMPLETE DRILLING PLAN
☑ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
☑ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Andrew Busch TITLE V. P. of Operations

SIGNATURE Andrew Busch DATE 4/29/2004

(This space for State use only)

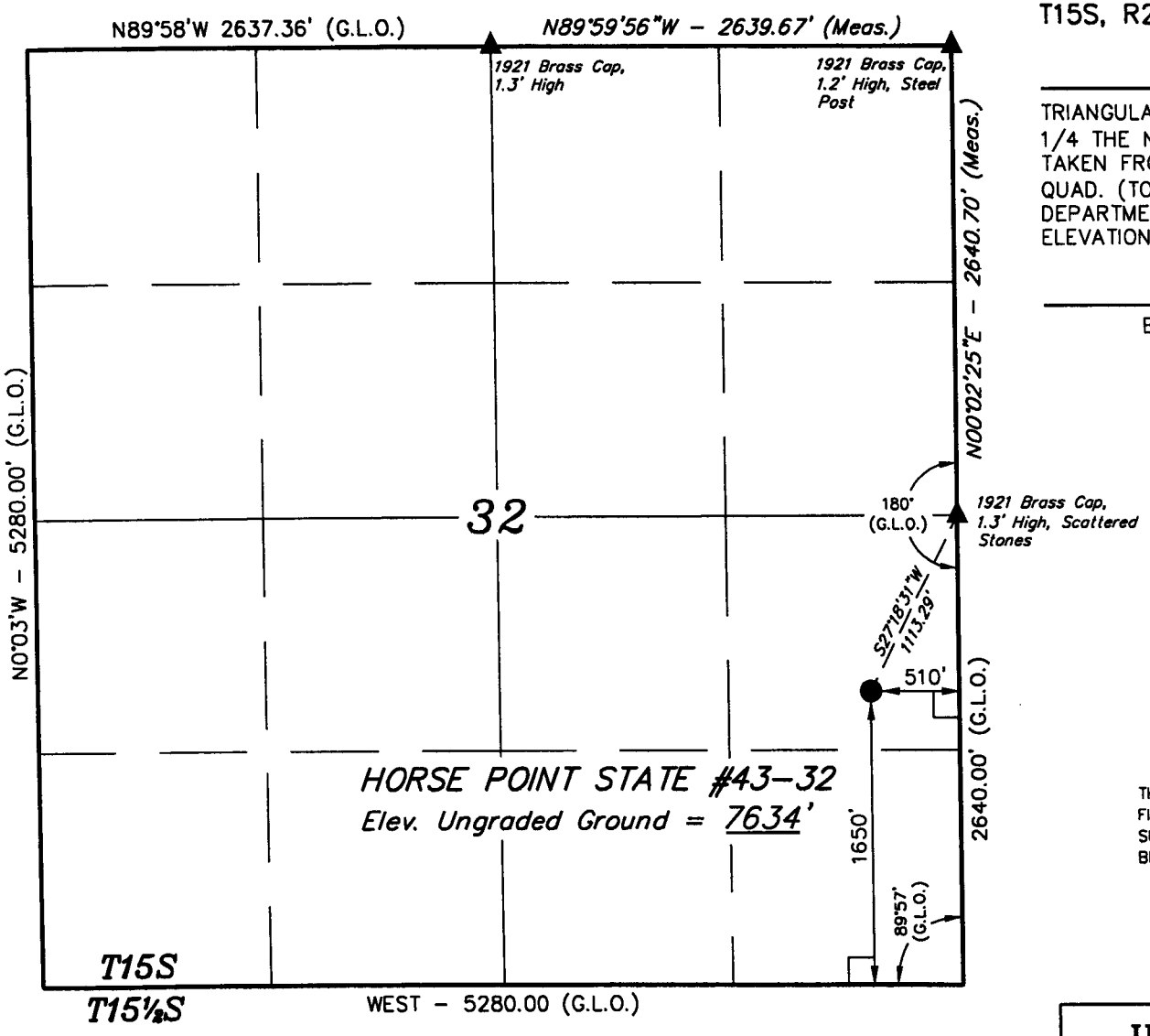
API NUMBER ASSIGNED: 43-047-35685

Approved by the Utah Division of Oil, Gas and Mining
Date: 06-22-04
(See Instructions on Reverse Side)
By:

RECEIVED
MAY 03 2004
DIV. OF OIL, GAS & MINING

(11/2001)

T15S, R23E, S.L.B.&M.



NATIONAL FUEL CORPORATION

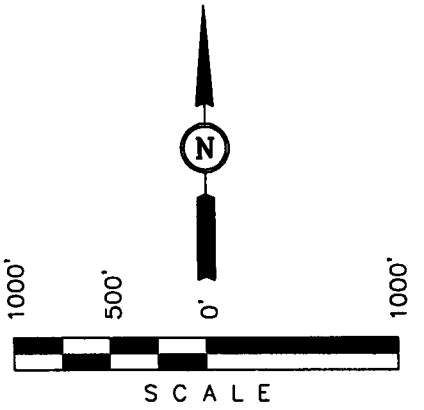
Well location, HORSE POINT STATE #43-32, located as shown in the NE 1/4 SE 1/4 of Section 32, T15S, R23E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

TRIANGULATION STATION "HORN" LOCATED IN THE NE 1/4 SE 1/4 THE NW 1/4 OF SECTION 26, T15S, R23E, S.L.B.&M. TAKEN FROM THE PR SPRING QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 8200 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. No. 161319

KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REGISTERED LAND SURVEYOR STATE OF UTAH

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(AUTONOMOUS NAD 83)
LATITUDE = 39°28'00.80" (39.466889)
LONGITUDE = 109°21'31.87" (109.358853)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	04-08-04	04-16-04
PARTY: B.B. T.H. D.COX	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: NATIONAL FUEL CORPORATION	

UTAH STATE COVER PAGE

Must Accompany All Project Reports
Submitted to Utah SHPO

Project Name: **Class III cultural resources inventory of the proposed Horse Point State #43-32 well location, short new pipeline, and new and to-be-upgraded access on State and private lands in Uintah and Grand Counties, Utah for National Fuel Corporation**

State Proj. No. **U04-GB-0472s,p**

Report Date: **9 June 2004**

County(ies): **Grand and Uintah**

Principal Investigator: **Carl E. Conner**

Field Supervisor(s): **Carl E. Conner**

Records search completed at: **UDSH**

Record search date(s): **5/26/2004**

Acreage Surveyed ~ Intensive: **66.3 acres**

Recon/Intuitive: **0 acres**

7.5' Series USGS Map Reference(s): **PR Spring (1987)**

Sites Reported	**Count**	**Smithsonian Site Numbers**
Archaeological Sites Revisits (no inventory form update)	0	
Revisits (updated IMACS site inventory form attached)	0	
New recordings (IMACS site inventory form attached)	0	
Total Count of Archaeological Sites	0	
Historic Structures (USHS 106 site info form attached)	0	
Total National Register Eligible Sites	0	

----------Checklist of Required Items----------

1. _X_ Copy of the Final Report
2. _X_ Copy of 7.5' Series USGS Map with Surveyed/Excavated Area Clearly Identified.
3. Completed IMACS Site Inventory Forms, Including
   ___Parts A and B or C, ___The IMACS Encoding Form,
   ___Site Sketch Map, ___Photographs
   ___Copy of the appropriate 7.5' Series USGS Map w/ the Site Location Clearly Marked and Labeled with the Smithsonian Site Number
4. _X_ Completed "Cover Sheet" Accompanying Final Report and Survey Materials (Please make certain all of your checked items are attached.)

002

4/29/04

State of Utah, Division of Oil, Gas, and Mining
Application for Permit to Drill

Company: National Fuel Corporation Well No. State #43-32

Location: Sec. 32, T. 15S, R. 23E, Lease No. ML-46629

All operations will be conducted in such a manner that full compliance is made with applicable laws, regulations, the approved plan of operations and the conditions of approval. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

A. DRILLING PROGRAM

Surface Formation and Estimated Formation Tops:

Wasatch	@surface
Mesaverde	
Castlegate	4393'
Mancos	
Mancos "B"	5114'
Dakota Silt	8051'
Dakota Sand	8137'
Cedar Mtn.	8193'
Morrison	8323'
TD	8500'

1. Estimated Depth at Which Oil, Gas, Water or Other Mineral Bearing Zones are Expected to be Encountered

Depth/Formation

Expected Oil Zones: None

Expected Gas Zones: Castlegate, Dakota Silt, Dakota, Cedar Mtn, Morrison

Expected Water Zones: None

Expected Mineral Zones: None

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and will be cased and cemented. When possible, water flow rates will be measured and samples will be taken and analyzed with the results being submitted to Utah. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment – See attached schematic: Type: 11" X 5,000 psi WP, double-gate BOP and 11" X 5,000 psi WP annular BOP with hydraulic closing unit.

The blowout preventer will be equipped as follows:

1) One set of blind rams
2) One set of pipe rams
3) Drilling spool with two side outlet (choke side: 3" minimum and kill side 2" minimum)
4) Kill line: Two-inch minimum
5) Two kill line valves, one of which will be a check valve (2" minimum)
6) Choke line: Three-inch minimum.
7) Two choke line valves: Three-inch minimum.
8) One manually operated choke: Three-inch minimum.
9) Pressure gauge on choke manifold.
10) Upper kelly cock with handle readily available.
11) Full opening internal blowout preventer or drill pipe safety valve able to fit all connections.
12) Fill-up line to be located above uppermost preventer.

PRESSURE RATING: 5,000 PSI

TESTING PROCEDURE

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the approved BOP stack. (if isolated from the surface casing by means of a test plug) or 70% of the internal yield strength of the surface casing (if not isolated from the surface casing by means of a test plug). Pressure will be maintained for a period of at least ten minutes or until requirements of the test are met, whichever is longer.

At a minimum, this pressure test will be performed:

1) When the BOP is initially installed
2) Whenever any seal subject to test is broken.
3) Following related repairs.
4) At thirty day intervals.

In addition to the above, the pipe rams will be activated daily, and the blind rams will be activated on each trip (but not more frequently than once each day). All BOP tests and drills will be recorded in the IADC Driller's Log (tour sheet)

CHOKE MANIFOLD EQUIPMENT:

All choke lines will be straight lines, unless turns use tee-blocks, or are targeted with running tees. These lines will be anchored to prevent whip and vibration.

ACCUMULATOR:

The accumulator will have sufficient capacity to close all rams (plus the annular preventer, if applicable) and maintain a minimum of 200 psi above the pre-charge pressure without the use of the closing unit pumps. The fluid reservoir capacity will be double the accumulator capacity and the fluid level will be maintain at the manufacturer's recommendation. The BOP system will have two independent power sources to close preventers. Nitrogen bottles (three minimum) will be considered one of these sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits of manufacturer's specifications.

MISCELLANEAUS INFORMATION:
The blowout preventer and related pressure-control equipment will be installed, tested, and maintained in compliance with the specifications in and requirements of DOGM's Drilling and Operating Practices #R649-3-7. The choke manifold and BOP extension rods will be located outside the rig sub-structure.

The hydraulic BOP closing unit will be located at least twenty-five feet from the wellhead, but will be readily accessible to the driller. Exact location and configuration of the hydraulic BOP closing unit will depend upon the particular drilling rig contracted to drill this hole.

3. Casing Program and Auxiliary Equipment – include casing size, weight, grade, thread and coupling, setting depth and condition (new or acceptably reconditioned):

Surface csg.-	New	13 3/8" 48.5# , H-40, ST&C,	150' to Surface
Intermediate csg.-	New	9 5/8", 36# , J-55, ST&C,	1650' to Surface
Production csg.-	New	4 ½" , 11.6#, N-80,ST&C	8500' to Surface

4. Cement – include the cement type, density, yield, additives and amount used in setting each casing string. Also include the anticipated cement fill-up. If stage cementing, describe techniques:
13 3/8" csg. –220sx Regular Class G cement, 1.15 cu ft/sk, 15.8 ppg, 150' to surface.
9 5/8" csg. - 640sx w/10% gypsum,, 2% Ca Cl2, 0.25 PPS Flocele,1.61 cu ft/sk, 14.2 ppg, 1650' to surface.
4 ½" csg. – 1st stage 50/50 poz w/0.25 PPS Flocele, 1.26 cu ft/sk, 14.2 ppg, 8500' to 5100'. 2nd stage 50/50 poz w/0.25 PPS Flocele, 1.26 cu ft/sk, 14.2 ppg, 5100' to 1650'
Surface casing shall be cemented back to surface. Centralizers shall be run, at a minimum, on the bottom three joints of each casing string. Stage tool will be at 5100' in 4 ½" string.

5. Mud Program and Circulating Medium – Anticipate drilling surface and intermediate with air. Production hole will be drilled with a Diammonium Phosphate (DAP) fluid system. Sufficient mud materials will be stored on location to maintain well control and combat lost circulation problems that might reasonably be expected.

6. Coring, Logging and Testing Program: No DST or core anticipated. Logging program: CNL/LDT/LSS w/ XY caliper and DLL. Open hole logs will be run from TD to 1650'. All good gas and/or oil shows will be tested when perforated through production csg.
Initial opening of drill stem test tools will be restricted to daylight hours.

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards – include anticipated bottomhole pressure and/or pressure gradient. Also list anticipated lost circulation zones, abnormal temperature zones and possible hydrogen sulfide bearing zones: No abnormal conditions, pressures, temperatures or hazards are anticipated and are not common in this area. No H2S anticipated and does not exist in other wells in the area. Based on information from other wells in the area, max BHP not expected to exceed 3650#.

8. Any Other Aspects of this Proposal that should be Addressed: _____
Anticipated time frames for: Construction and Drilling - 20 to 25 days
Completion and Testing - 10 to 15 days

B. SURFACE USE PLAN

The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction. Surface disturbance and vehicular travel will be limited to the approved location and access road.

1. Existing Roads:

a. Proposed route to location (submit a map depicting access and well location).
See attached maps and plats from ULES.

b. Location of proposed well in relation to town or other reference point: See next page.

c. Contact the County Road Department for use of county roads.

d. Plans for improvement and/or maintenance of existing roads: Approximately 3.5 miles of existing road will need to be improved to accommodate rig trafffic. This is the stretch of road that preceeds the new access for proposed location. See plat.

e. Other: _____

2. Planned Access Roads:

a. Location (centerline): See on map attached to survey plat.

b. Length of new access top be constructed: 0.4 miles

c. Length of existing roads to be upgraded: 3.5 miles

d. Maximum total disturbed width: 50ft

e. Maximum travel surface width: 18ft

f. Maximum grades: 10% or less

g. Turnouts: As needed.

h. Surface materials: No off-site materials anticipated.

i. Drainage (crowning, ditching, culverts, etc.): No drainage crossings will be needed for access route. Access road will be crowned and drainage ditches cut as necessary to provide adequate drianage.

Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed must be approved by the Area Manager in advance.

3. Location of Production Facilities:

   a. On-site facilities: Wellhead, meter facilities, separator, dehydrator, production tank and fenced emergency water disposal pit. Details of needed facilities will be submitted if well is completed for production.

   b. Off-site facilities: None

   c. Pipelines: If gas production is established, a new 4" steel gathering line will be laid to existing 4" steel surface line in Horse Canyon west of proposed location. See attached pipeline map of pipe line route.

All permanent (in place for six months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities will be painted within six months of installation.

All site security guidelines identified in 43 CFR § 3162.7-5 and Onshore Oil and Gas Order No. 3 shall be followed.

If a gas meter run is constructed, it will be located on lease within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and will be buried downstream of the meter until it leaves the pad. Meter runs will be housed and/or fenced. The gas meter shall be calibrated prior to first sales and shall be calibrated quarterly thereafter. All gas production and measurement shall comply with the provisions of 43 CFR § 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.

If a tank battery is constructed on this lease, it will be surrounded by a berm of sufficient capacity to contain 1 ½ times the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All oil production and measurement shall conform to the provisions of 43 CFR § 3162.7-3 and Onshore Oil and Gas Order No. 4.

4. Location and Type of Water Supply:

All water needed for drilling purposes will be obtained from (describe location and/or show on a map): Water for drilling and completion operations will be purchased from rancher Bert Delambert and taken from a pond on his property located in Main Canyon in the center of the E ½, E ½ Section 31-T15S-R23E, Uintah Co., Utah. Water Right #49-123, App. #T-14298, Cert. #1504. See attached map showing water source location.

5. Source of Construction Material:

Pad construction material will be obtained from (if the source is Federally owned, show location on a map): Native materials. All on site.

The reserve pit shall be located in cut material, with at least 50% of the pit volume being below original ground level. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. As soon as the reserve pit has dried, all areas not needed for production will be rehabilitated.

Trash must be contained in a trash cage and hauled away to an approved disposal site as necessary, but no later than at the completion of drilling operations.

Sewage will be contained in approved containers and disposed of at an approved disposal site.

6. Ancillary Facilities: None required. Anticipate up to 3 living trailers for rig personel during drilling and completion.

7. Well Site Layout – depict the pit, rig, cut and fill, topsoil, etc., on a plat with a scale of at least 1" = 50'.

The blooie line will be located at least 100 feet from the well head.

To minimize the amount of fugitive dust and spray escaping from the blooie pit, the following blooie line deflection method will be employed: Blooie line will be directed into the base of the dirt embankment surrounding the blooie pit.

8. Plans for Restoration of the Surface:

The top 5 inches of topsoil material will be removed from the location and stockpiled separately on: The East and West ends of the location. See survey plat.

Immediately upon completion of drilling, all equipment that is not necessary for production shall be removed.

The reserve pit and that portion of the location not needed for production will be reclaimed.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry.

All road surfacing will be removed prior to the rehabilitation of roads.

Reclaimed roads will have the berms and cuts reduced and will be closed to vehicle use.

All disturbed areas will be recontoured to replicate the natural slope.

The stockpiled topsoil will be evenly distributed over the disturbed area.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

Seed will be broadcast or drilled between Sept 1st and Dec 31st, or at a time specified by the State of Utah. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage.

The following seed mixture will be used: As specified by State.

The abandonment marker will be one of the following, as specified by the State:

1) at restored ground level, or
2) below ground level.

In any case, the marker shall be inscribed with the following: operator name, lease number, well name and surveyed description (township, range, section and either quarter-quarter or footages).

9. Surface and Mineral Ownership: State surface and mineral ownership.

10. Other Information:

a. Archeological Concerns: A cultural and archaeological survey will be performed on the new well site and access road to location. Results will be forwarded to the State of Utah for review.

The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five (5) working days, the AO will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- a time frame for the AO to complete an expedited review under 36 CFR § 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume

responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, the operator will then be allowed to resume construction.

b. Threatened and Endangered Species Concerns: None

c. Wildlife Seasonal Restrictions (yes/no): As specified by State of Utah.

d. Off Location Geophysical Testing: None

e. Drainage crossings that require additional State or Federal approval: None

11. Lessee's or Operator's Representative and Certification

Representative:

Name: Andrew W. Busch, Fruita Office (970)858-7490, Cell (970) 260-8128

Title: V.P. of Operations

Address: 7979 E. Tufts Ave. Pkwy., #815
Denver, Co. 80237

Phone Number: (303)220-7772

Certification:
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by National Fuel Corporation and its contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under Utah Statewide Blanket Drilling Bond no. 04127314.

Andrew Busch
Signature

Vice President of Operations
Title

April 29th, 2004
Date

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 5

DESIGNATION OF AGENT OR OPERATOR

The undersigned is, on record, the holder of oil and gas lease

LEASE NAME: State

LEASE NUMBER: ML-46629

and hereby designates

NAME: National Fuel Corporation

ADDRESS: 7979 E. Tufts Ave Pkwy., Ste 815

city Denver state CO zip 80237

as his (check one) agent ☐ / operator ☑, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

(Describe acreage to which this designation is applicable. Identify each oil and gas well by API number and name. Attach additional pages as needed.)

T15S-R23E, SLB & M
Section 32: E/2

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation: 04/21/2004

BY: (Name) Donald K. Roberts

(Signature)

(Title) President

(Phone) (406) 259-2451

OF: (Company) Beartooth Oil & Gas Company

(Address) P.O. Box 2564

city Billings

state MT zip 59103

(5/2000)

NATIONAL FUEL CORPORATION
HORSE POINT STATE #43-32
SECTION 32, T15S, R23E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION ON THE SEEP RIDGE ROAD APPROXIMATELY 55.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 2.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 3.5 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTH; FOLLOW ROAD FLAGS IN A NORTHERLY, THEN SOUTHWESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 92.6 MILES.

NATIONAL FUEL CORPORATION

HORSE POINT STATE #43-32

LOCATED IN UINTAH COUNTY, UTAH
SECTION 32, T15S, R23E, S.L.B.&M.

PHOTO: VIEW FROM PIT CORNER "D" TO LOCATION STAKE **CAMERA ANGLE: NORTHERLY**

PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS **CAMERA ANGLE: NORTHERLY**

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

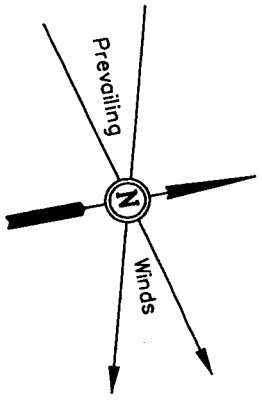
LOCATION PHOTOS	4 MONTH	15 DAY	04 YEAR	PHOTO
TAKEN BY: B.B.	DRAWN BY: J.L.G.	REVISED: 00-00-00		

NATIONAL FUEL CORPORATION

LOCATION LAYOUT FOR

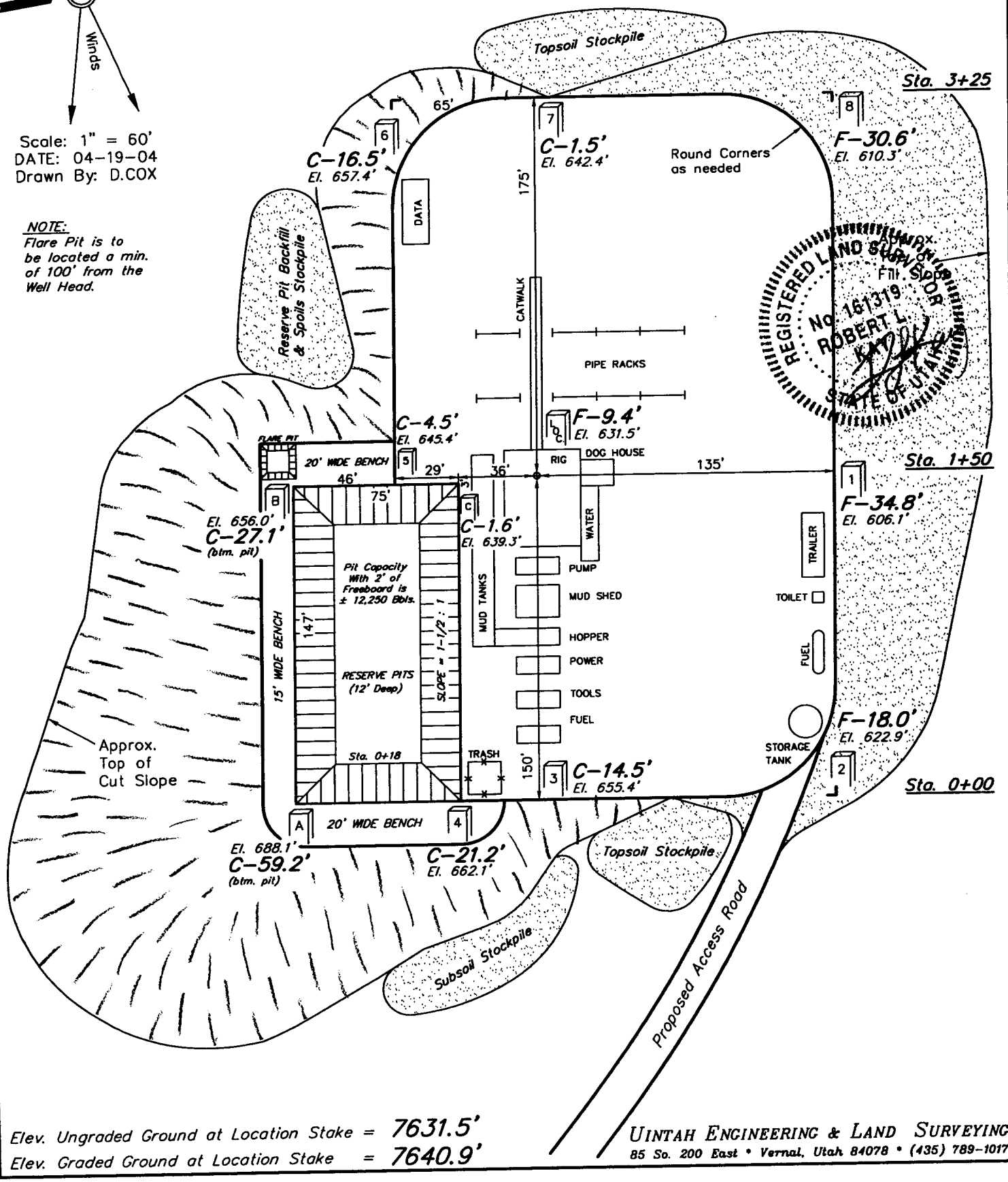
HORSE POINT STATE #43-32
SECTION 32, T15S, R23E, S.L.B.&M.
1650' FSL 510' FEL

NOTE:
Earthwork Calculations Require a Fill of 9.4' @ the Location Stake For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.



Scale: 1" = 60'
DATE: 04-19-04
Drawn By: D.COX

NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.



Elev. Ungraded Ground at Location Stake = 7631.5'
Elev. Graded Ground at Location Stake = 7640.9'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

NATIONAL FUEL CORPORATION

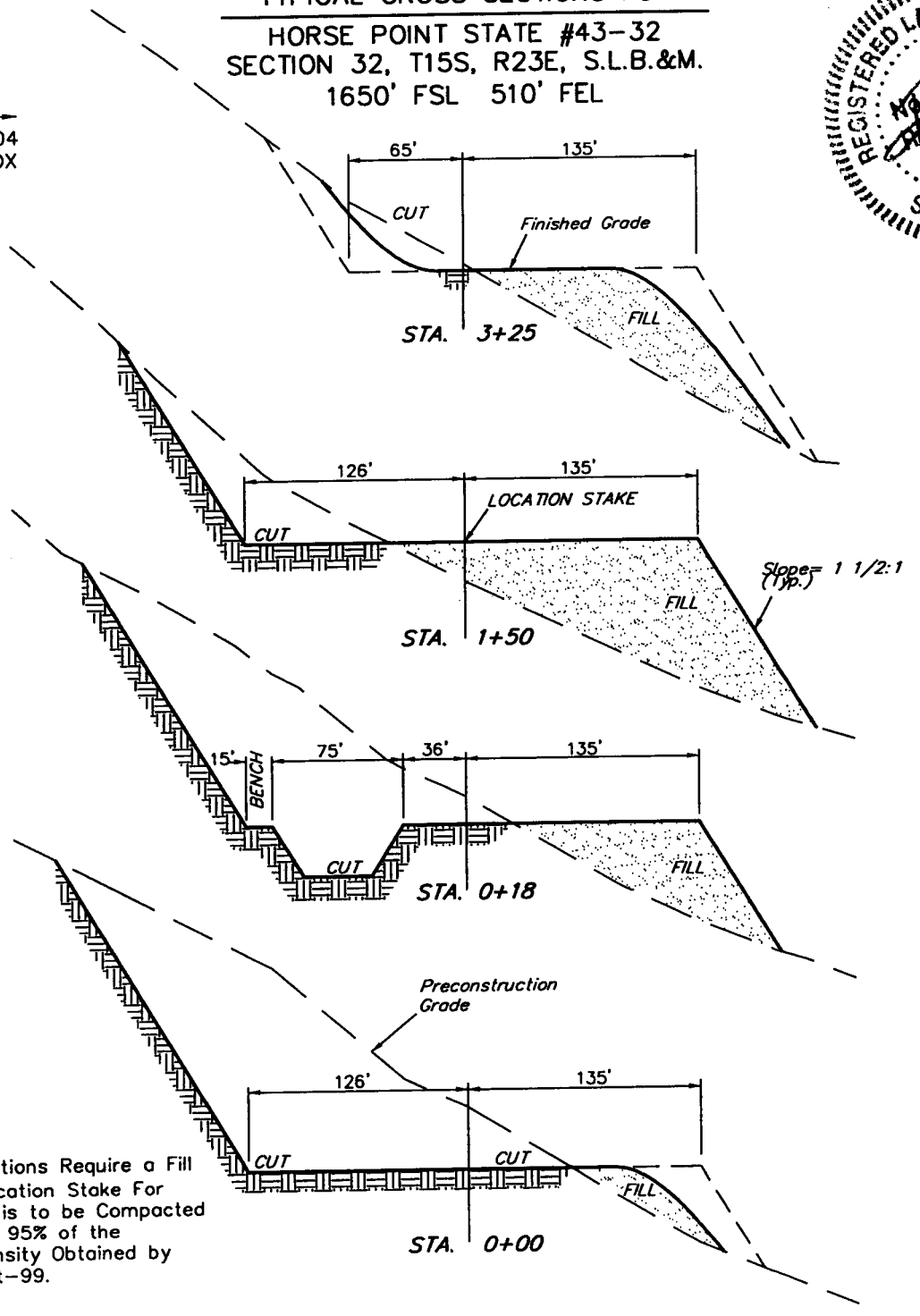
TYPICAL CROSS SECTIONS FOR

HORSE POINT STATE #43-32
SECTION 32, T15S, R23E, S.L.B.&M.
1650' FSL 510' FEL

1" = 40'
X-Section Scale
1" = 100'

DATE: 04-19-04
Drawn By: D.COX

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH



NOTE:
Earthwork Calculations Require a Fill of 9.4' @ the Location Stake For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

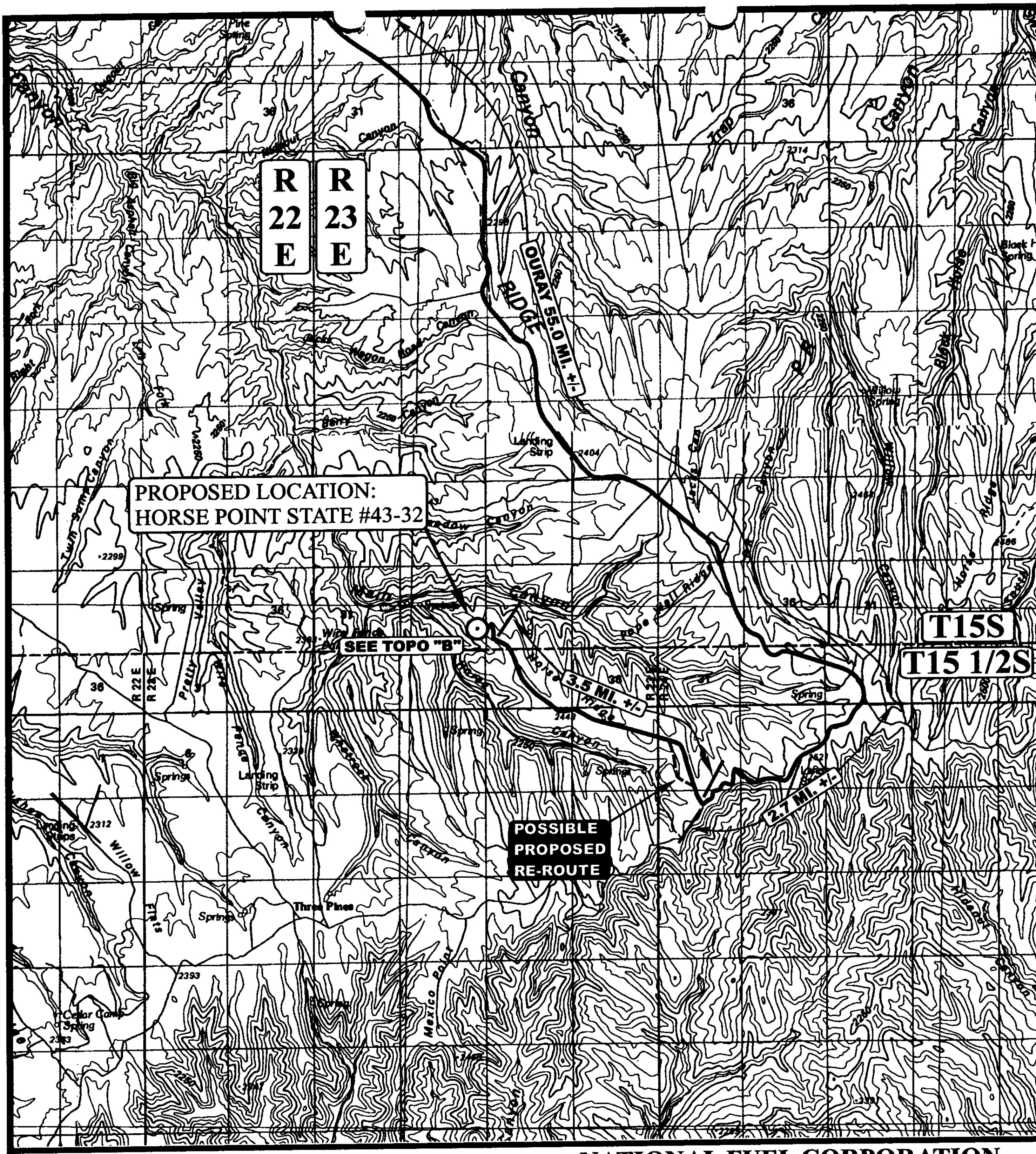
* *NOTE:*
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT			
(6") Topsoil Stripping	=	2,900	Cu. Yds.
Remaining Location	=	43,460	Cu. Yds.
TOTAL CUT	=	46,360	CU.YDS.
FILL	=	41,800	CU.YDS.

EXCESS MATERIAL	=	4,560	Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	4,560	Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	0	Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
*85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017*



LEGEND:

⊙ PROPOSED LOCATION

N

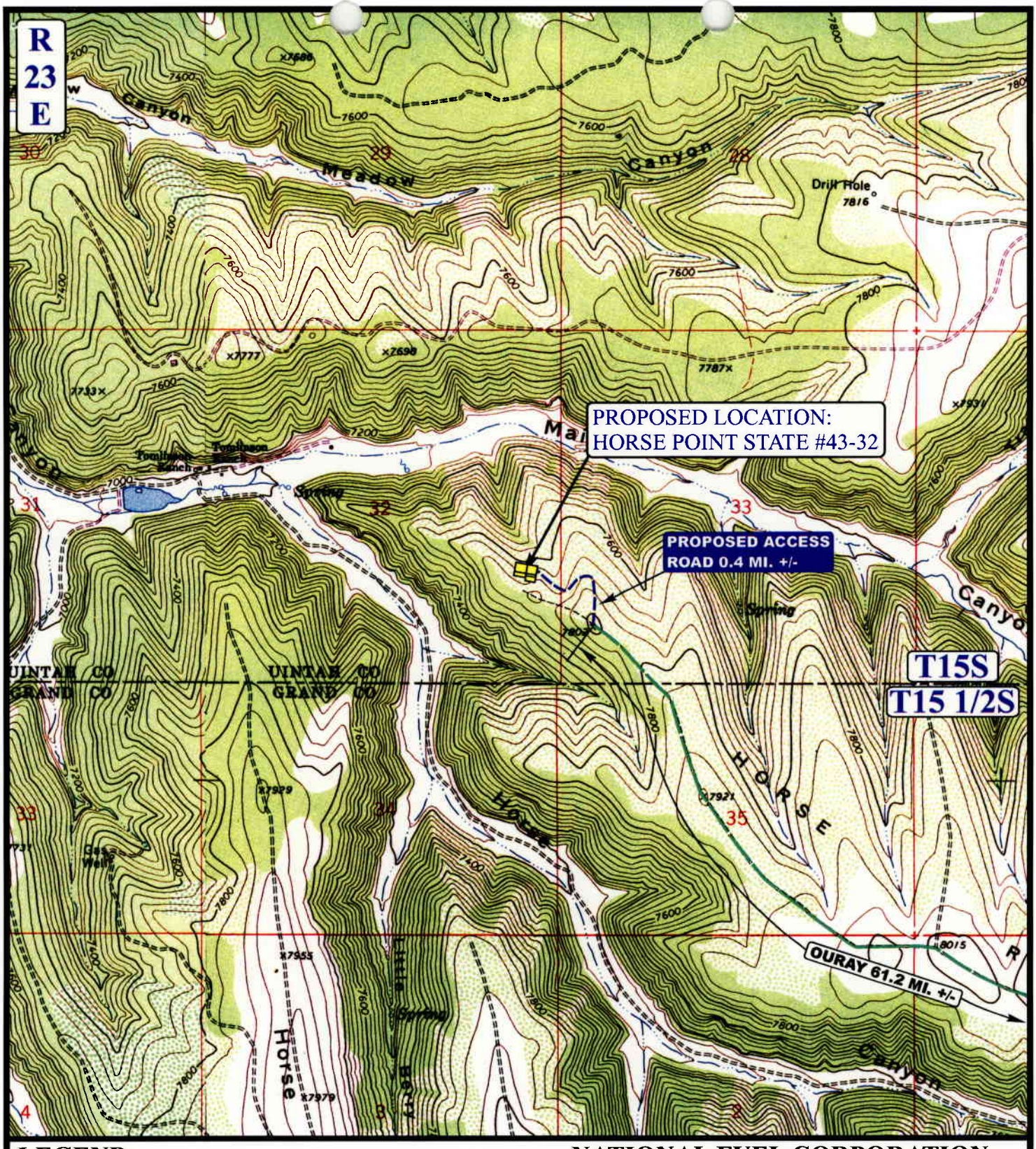
NATIONAL FUEL CORPORATION

HORSE POINT STATE #43-32
SECTION 32, T15S, R23E, S.L.B.&M.
1650' FSL 510' FEL

UELS
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	4 MONTH	15 DAY	04 YEAR	A TOPO

SCALE: 1:100,000 | DRAWN BY: J.L.G. | REVISED: 00-00-00



LEGEND:

EXISTING 2-TRACK NEEDS UPGRADED

EXISTING ROAD

PROPOSED ACCESS ROAD

N

NATIONAL FUEL CORPORATION

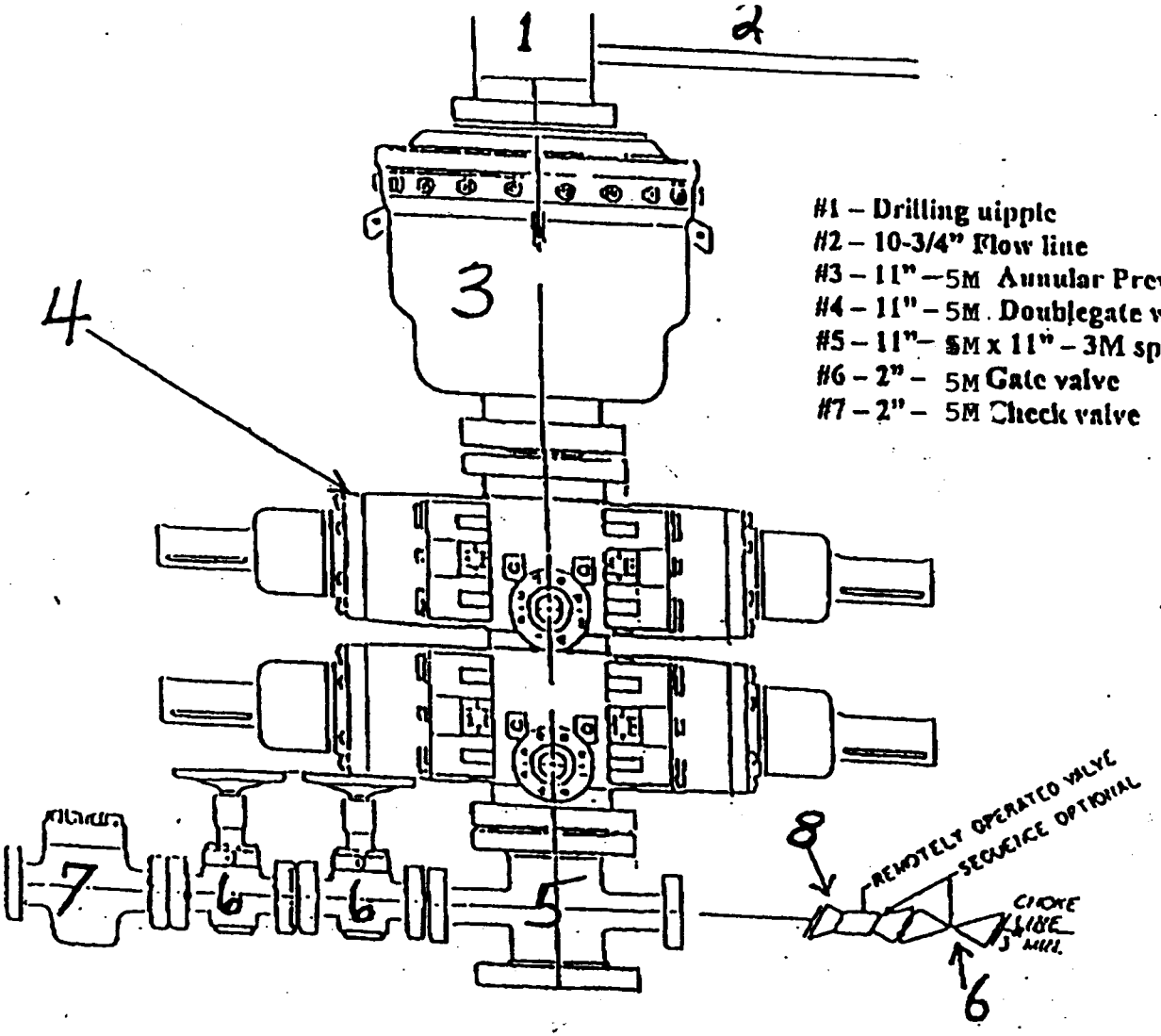
HORSE POINT STATE #43-32
SECTION 32, T15S, R23E, S.L.B.&M.
1650' FSL 510' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP | 4 MONTH | 14 DAY | 04 YEAR

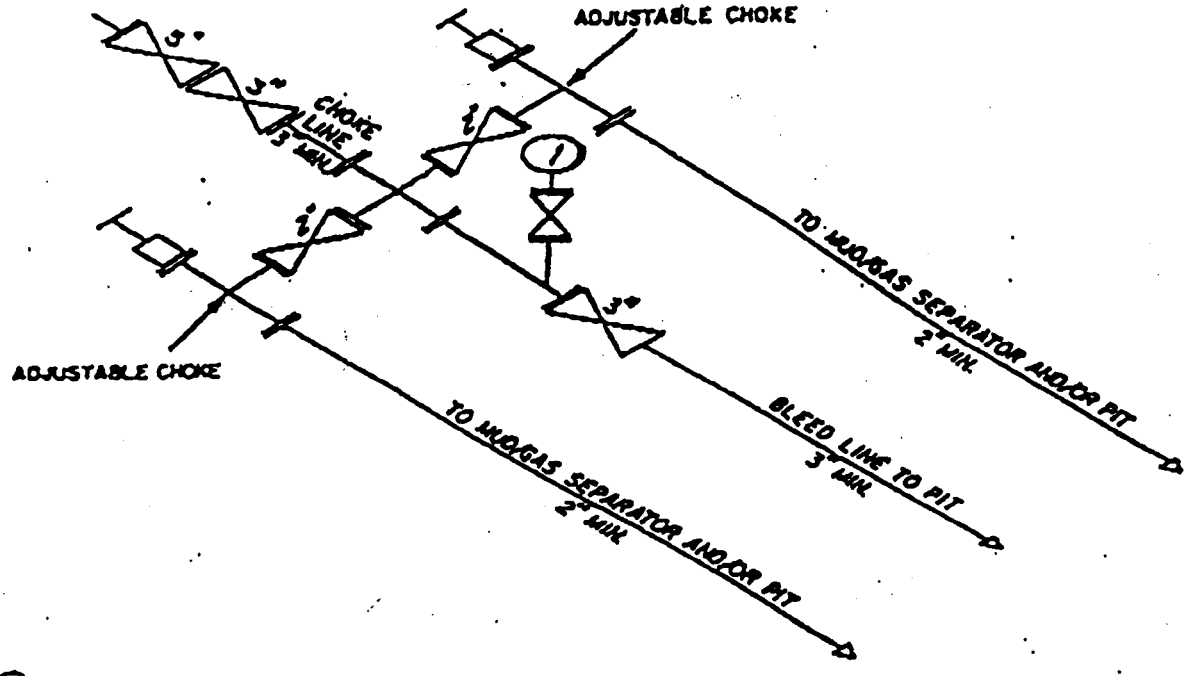
SCALE: 1" = 2000' | DRAWN BY: J.L.G. | REVISED: 00-00-00

B TOPO

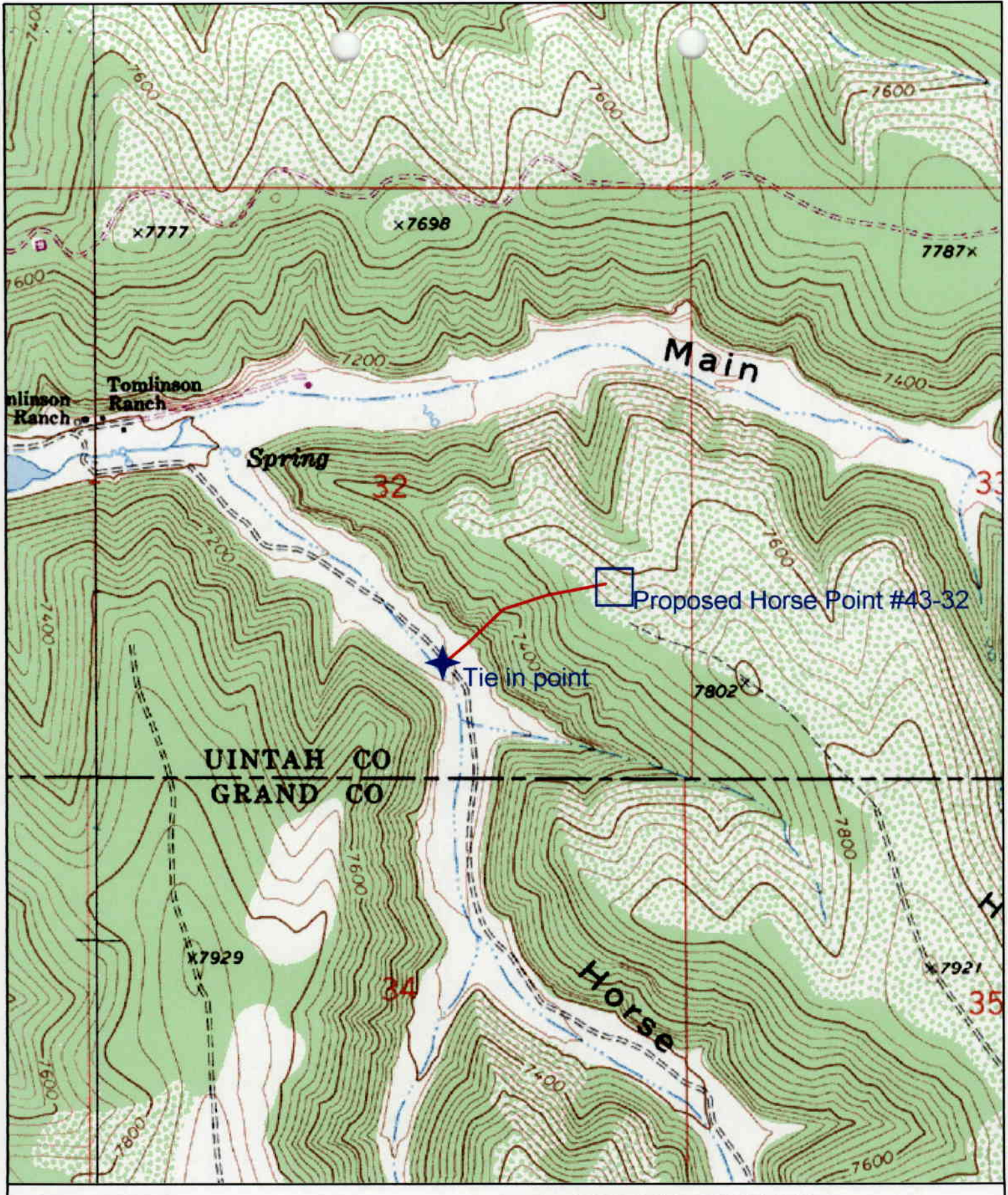


#1 – Drilling nipple
#2 – 10-3/4" Flow line
#3 – 11" – 5M Annular Preventer
#4 – 11" – 5M Doublegate with pipe rams and CSO rams
#5 – 11" – 5M x 11" – 3M spool with 2-3"- 3M flange outlets
#6 – 2" – 5M Gate valve
#7 – 2" – 5M Check valve

11" – 5M Doublegate with Annular Preventer

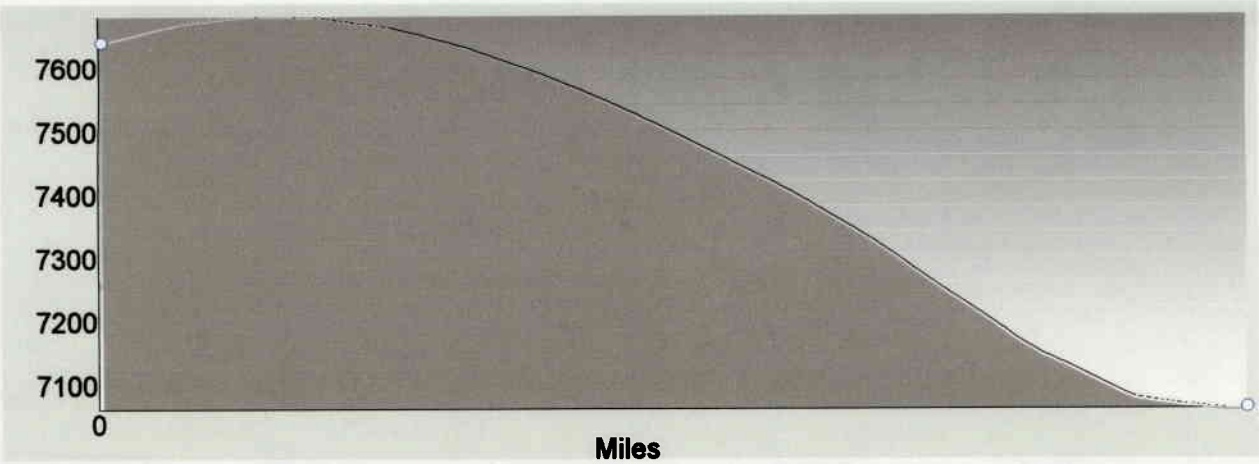


(2) 5M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION OF CHOKES MAY VARY

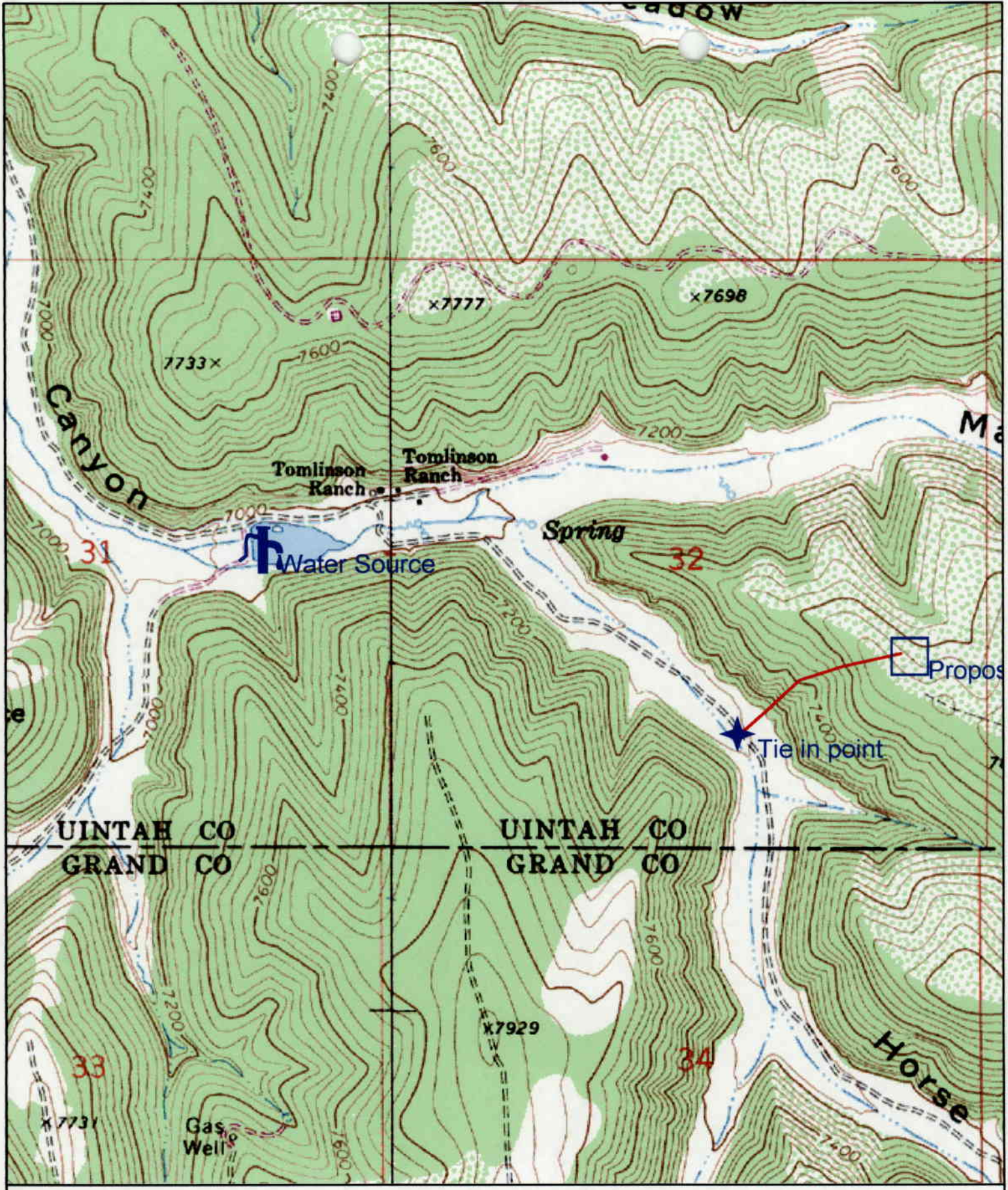


Name: P R SPRING
Date: 4/29/2004
Scale: 1 inch equals 1111 feet

Location: 039° 28' 00.6" N 109° 21' 43.9" W
Caption: Proposed Pipeline



Total distance:	**1639 feet**	**Climbing:**	**42 feet**	**Latitude:**	**039° 28' 01.3" N**
		Descending:	**-620 feet**	**Longitude:**	**109° 21' 35.3" W**
Ground distance:	**1803 feet**	**Elevation change:**	**-577 feet**	**Elevation:**	**7650 feet**
		Min/Max:	**7062/7683**	**Grade:**	**16%**



Name: CEDAR CAMP CANYON
Date: 4/29/2004
Scale: 1 inch equals 1111 feet

Location: 039° 28' 06.8" N 109° 22' 17.2" W
Caption: Water Source

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

003

APD RECEIVED: 05/03/2004

API NO. ASSIGNED: 43-047-35685

WELL NAME: HORSE POINT ST 43-32

OPERATOR: NATIONAL FUEL (N8060)

CONTACT: ANDREW BUSCH

PHONE NUMBER: 303-220-7772

PROPOSED LOCATION:

NESE 32 150S 230E

SURFACE: 1650 FSL 0510 FEL

BOTTOM: 1650 FSL 0510 FEL

UINTAH

UNDESIGNATED (2)

LEASE TYPE: 3 - State

LEASE NUMBER: ML-46629

SURFACE OWNER: 3 - State

PROPOSED FORMATION: MRSN

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DKD	6/7/04
Geology		
Surface		

LATITUDE: 39.46689

LONGITUDE: 109.35805

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[] Ind[] Sta[3] Fee[]
(No. 04127314)

N Potash (Y/N)

NS Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 49-123)

NA RDCC Review (Y/N)
(Date:)

NA Fee Surf Agreement (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit _____

___ R649-2-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

✓ R649-3-3. **Exception**

___ Drilling Unit

Board Cause No: _____

Eff Date: _____

Siting: _____

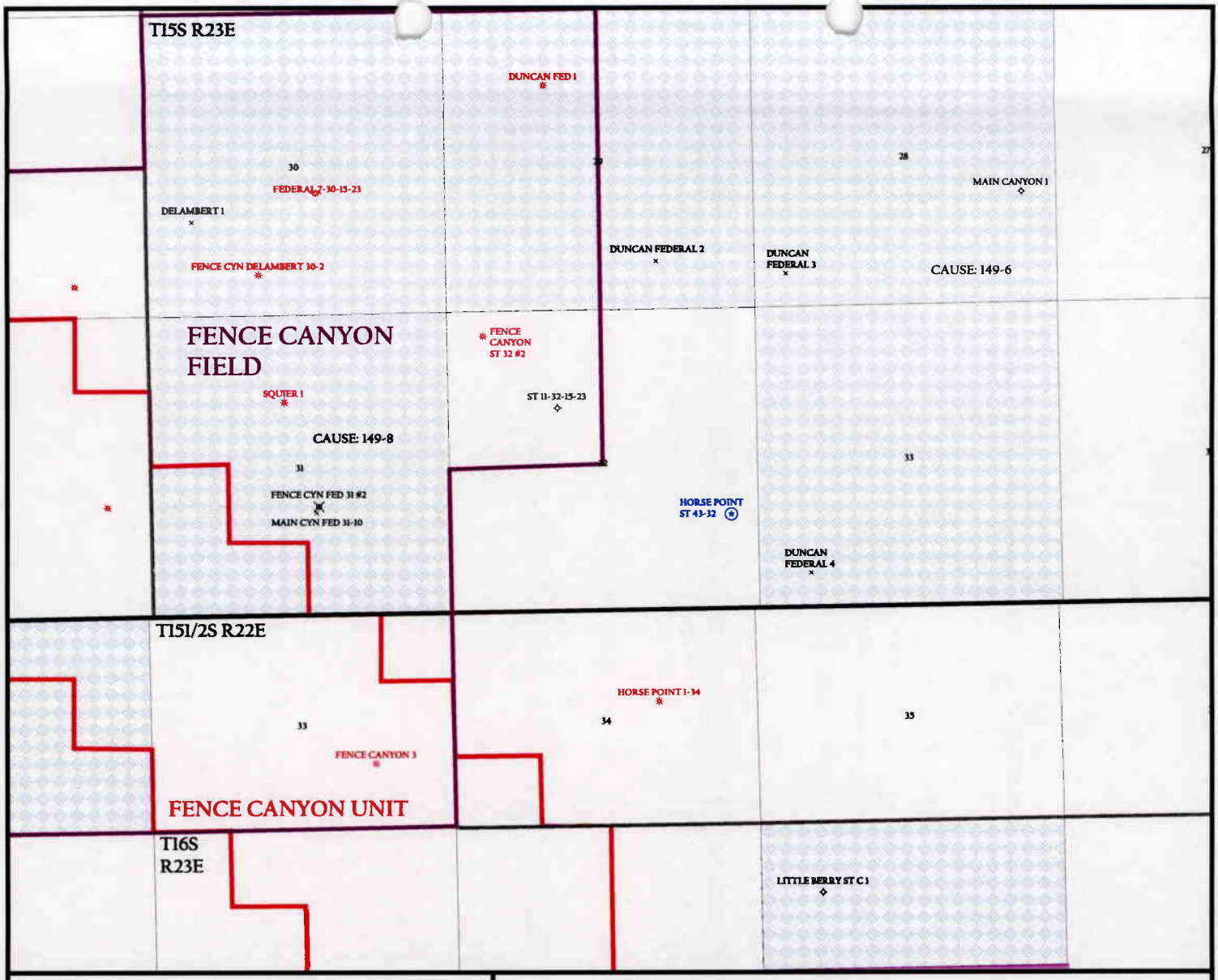
___ R649-3-11. Directional Drill

COMMENTS: Needs Presite (05-20-04)

STIPULATIONS: 1- Spacing Sh?

2- 4½" Production Casing Cement should be brought up to a min. of 250ft to adequately protect mod. Salt & GW

3- STATEMENT OF BASIS



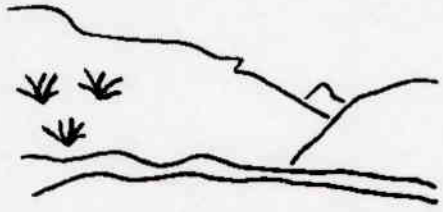
OPERATOR: NATIONAL FUEL CORP (N8060)

SEC. 32 T.15S, R.23E

FIELD: UNDESIGNATED (002)

COUNTY: UINTAH

SPACING: R649-3-3 / EXCEPTION LOCATION



Utah Oil Gas and Mining

Well Status

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL

Unit Status

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Field Status

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

PREPARED BY: DIANA WHITNEY
DATE: 5-MAY-2004

From: Ed Bonner
To: Whitney, Diana
Date: 5/5/2004 3:11:45 PM
Subject: Re: National Fuel Corporation's lease and bond

Beartooth Oil & Gas Company is the lessee of ML 46629. We will need a designation of operator from Beartooth to National Fuel
Bond No. 04127314 is an $80,000 bond we are holding for National Fuel.

AREA CODE 303
PHONE 220-7772

FAX
220-7773

National Fuel Corporation

7979 EAST TUFTS AVENUE PARKWAY, SUITE 815
DENVER, COLORADO 80237-2843

May 17, 2004

VIA FAX: 801/359-3940

Ms. Diana Whitney
Utah Division of Oil Gas & Mining
P.O. Box 145801
Salt Lake City 84114-5801

Re: ***REVISED REQUEST FOR EXCEPTION TO RULE R643-3***
National Fuel Corp. APD - Horse Point State #43-32
Sec. 32-T15S-R23E (Horse Point Area)
Uintah County, Utah

Dear Ms. Whitney:

This revision to our letter dated May 10 is sent to request an exception to Rule R643-3 for the subject well (well name and section number have been corrected). As seen on the topographic map enclosed with our original request, there is a severe slope further north from the location we have proposed. If our request for exception to R643-3 is granted, the proposed location will mitigate surface disturbance from additional road building. *Further, there are no other owners within a 460-foot radius of the proposed location.*

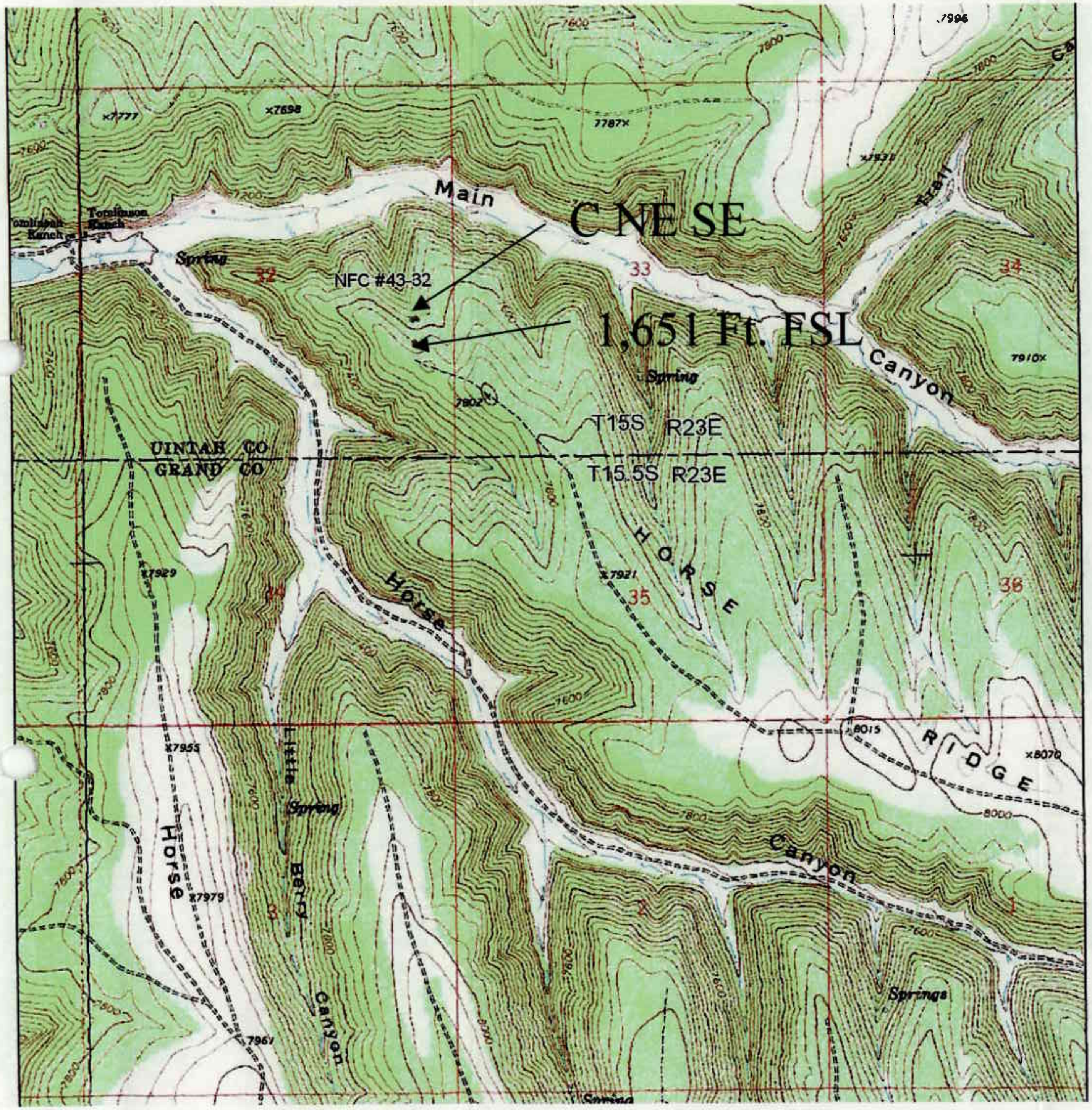
We believe the proposed location complies with other well location requirements and we respectfully request that our proposed exception to R643-3 be granted. Please feel free to call Mr. Andy Busch at (970) 260-8128 if you have additional concerns.

Yours truly,

Diane Thompson

Diane Thompson
President
NATIONAL FUEL CORPORATION

RECEIVED
MAY 17 2004
DIV. OF OIL, GAS & MINING



NFC #43-32
C NE SE
1,651 Ft. FSL
T15S R23E
T15.5S R23E
UINTAH CO
GRAND CO
Main
Canyon
Trail
Horse
Horse
Canyon
HORSE RIDGE
Little
Spring
Berry
Canyon
Spring
Springs
Tomlinson Ranch
32
33
34
35
36

ON-SITE PREDRILL EVALUATION
Division of Oil, Gas and Mining

OPERATOR: NATIONAL FUEL CORPORATION
WELL NAME & NUMBER: HORSE POINT STATE 43-32
API NUMBER: 43-047-35685
LEASE: ML 46829 **FIELD/UNIT:** UNDESIGNATED
LOCATION: 1/4,1/4 NE/SE **Sec:** 32 **TWP:** 15S **RNG:** 23E 510' FEL 1650' FSL
LEGAL WELL SITING: 460 F **SEC. LINE;** 460 F **1/4,1/4 LINE;** 920 F **ANOTHER WELL.**
GPS COORD (UTM): 641238E 4369667N **SURFACE OWNER:** STATE OF UTAH.

PARTICIPANTS

DAVID W. HACKFORD (DOGM), ANDREW BUSCH (NATIONAL) FLOYD BARTLETT (DWR).

REGIONAL/LOCAL SETTING & TOPOGRAPHY

SITE IS ON THE NORTHEAST SLOPE OF HORSE RIDGE. THE TOP OF THIS RIDGE IS 500' TO THE SOUTHWEST. 0.4 MILES TO THE NORTHEAST IS MAIN CANYON. MAIN CANYON RUNS TO THE NORTHWEST FOR 18 MILES AND RUNS INTO WILLOW CREEK. THE POINT OF HORSE RIDGE, WHERE HORSE CANYON ENTERS MAIN CANYON, IS 0.4 MILES TO THE NORTHWEST. THIS AREA HAS STEEP AND HIGH RIDGES AND BROAD CANYONS. MACK, COLORADO IS 56 MILES TO THE SOUTHEAST.

SURFACE USE PLAN

CURRENT SURFACE USE: WILDLIFE AND LIVESTOCK GRAZING, HUNTING.

PROPOSED SURFACE DISTURBANCE: LOCATION WILL BE 325' BY 246'. PROPOSED ACCESS IS 0.4 MILES, WITH 3.5 MILES OF TWO TRACK WHICH WILL BE UPGRADED.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: SEE ATTACHED MAP FROM GIS DATABASE.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: NEW PRODUCTION FACILITIES WILL BE ON LOCATION AND ADDED AFTER DRILLING WELL. PIPELINE WILL RUN TO THE WEST FOR 0.4 MILES AND TIE INTO AN EXISTING LINE.

SOURCE OF CONSTRUCTION MATERIAL: ALL CONSTRUCTION MATERIAL WILL BE BORROWED FROM SITE DURING CONSTRUCTION.

ANCILLARY FACILITIES: NONE WILL BE REQUIRED.

WASTE MANAGEMENT PLAN:

DRILLED CUTTINGS WILL BE SETTLED INTO RESERVE PIT. LIQUIDS FROM PIT WILL BE ALLOWED TO EVAPORATE. FORMATION WATER WILL BE CONFINED TO STORAGE TANKS. SEWAGE FACILITIES, STORAGE AND DISPOSAL WILL BE HANDLED BY COMMERCIAL CONTRACTOR. TRASH WILL BE CONTAINED IN TRASH BASKETS AND HAULED TO AN APPROVED LAND FILL.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: NONE

FLORA/FAUNA: SAGEBRUSH, JUNIPER, PINION, DOUGLAS FIR, SERVICEBERRY, OAKBRUSH, BITTERBRUSH: DEER, ELK, BLACK BEAR, COUGAR, COYOTE, RODENTS, BOBCAT, RAPTORS, SONGBIRDS.

SOIL TYPE AND CHARACTERISTICS: LIGHT BROWN SANDY LOAM.

EROSION/SEDIMENTATION/STABILITY: VERY LITTLE NATURAL EROSION. SEDIMENTATION AND STABILITY ARE NOT A PROBLEM AND LOCATION CONSTRUCTION SHOULDN'T CAUSE AN INCREASE IN STABILITY OR EROSION PROBLEMS.

PALEONTOLOGICAL POTENTIAL: NONE OBSERVED

RESERVE PIT

CHARACTERISTICS: 147' BY 75' AND 12' DEEP.

LINER REQUIREMENTS (Site Ranking Form attached): A 12 MIL LINER WILL BE REQUIRED FOR RESERVE PIT.

SURFACE RESTORATION/RECLAMATION PLAN: AS PER S.I.T.L.A.

SURFACE AGREEMENT: **AS PER STATE OF UTAH**

CULTURAL RESOURCES/ARCHAEOLOGY: SITE WILL BE INSPECTED.

OTHER OBSERVATIONS/COMMENTS

THIS PREDRILL INVESTIGATION WAS CONDUCTED ON A WARM, SUNNY DAY WITH NO SNOW COVER.

ATTACHMENTS

PHOTOS OF THIS SITE WERE TAKEN AND PLACED ON FILE.

DAVID W. HACKFORD — 05/20/04 11:15 AM
DOGM REPRESENTATIVE — DATE/TIME

Evaluation Ranking Criteria and Ranking Score
For Reserve and Onsite Pit Liner Requirements

Site-Specific Factors	Ranking	Site Ranking
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	5
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	0
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	0
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	0
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	10
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid containing significant levels of hazardous constituents	15 20	5
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	0
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	5
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	0
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	0

Final Score 25 (Level I Sensitivity)

Sensitivity Level I = 20 or more; total containment is required.
Sensitivity Level II = 15-19; lining is discretionary.
Sensitivity Level III = below 15; no specific lining is required.


MAY 20 2004


MAY 20 2004


MAY 20 2004


MAY 20 2004

DIVISION OF OIL, GAS AND MINING
APPLICATION FOR PERMIT TO DRILL
STATEMENT OF BASIS

OPERATOR: NATIONAL FUEL CORPORATION
WELL NAME & NUMBER: HORSE POINT STATE 43-32
API NUMBER: 43-047-35685
LOCATION: 1/4,1/4 NE/SE Sec: 32 TWP:15S RNG:23E 510' FEL 1650' FSL

Geology/Ground Water:

National Fuel Corp. proposes to set 150' of surface casing and 1,650' of intermediate casing both cemented to surface. The base of the moderately saline water is at approximately 3,100 feet in this area. This location lies on the Green River Formation. The proposed location is in a recharge area for the aquifers of the upper Green River formation and fresh water can be expected to be found in the upper Green River. A search of Division of Water Rights records indicates no water wells within a 10,000 foot radius of the proposed location. The proposed casing and cement program should adequately protect any useable ground water.

Reviewer: Brad Hill **Date:** 06-03-2004

Surface:

The predrill investigation of the surface was performed on 05/20/04. Surface and minerals for this well are owned by the State of Utah. S.I.T.L.A. and D.W.R. were notified of this investigation on 5/12/04. Floyd Bartlett was present and represented the D.W.R. S.I.T.L.A. did not have a representative present. Mr. Bartlett gave Mr. Busch (National) a DWR approved seed mix for this area and suggested that the topsoil pile be reseeded as soon as possible to help preserve it. He also suggested that the reserve pit area and access road shoulders be reseeded as soon as the reserve pit is closed. There is very good loam topsoil at this site, and this area has traditionally been summer range for deer, elk and black bear. Mr. Busch asked for permission to re-route the existing two track road that comes to this site for approx. 0.6 miles in order to keep the entire access road on State surface and not cross private property. I told Mr. Busch he would have to speak to SITLA. This site is not the best spot for a location in this area. The top of Horse Ridge, 400' to the southwest would be a better site, but Mr. Busch stated that this site was picked as the target based on information obtained from recent seismic operations.

Reviewer: David W. Hackford **Date:** 5/21/04

Conditions of Approval/Application for Permit to Drill:

1. A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.

Well name:	**06-04 Nation Fuel Horse Point St 43-32**
Operator:	**Nation Fuel Corp**
String type:	Surface
Project ID:	43-047-35685
Location:	Uintah County

Design parameters:

Collapse
Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 139 psi
Internal gradient: 0.074 psi/ft
Calculated BHP 150 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 132 ft

Environment:
H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 67 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 150 ft

Cement top: Surface

Non-directional string.

Re subsequent strings:
Next setting depth: 1,650 ft
Next mud weight: 8.500 ppg
Next setting BHP: 729 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 150 ft
Injection pressure 150 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	150	13.375	48.00	H-40	ST&C	150	150	12.59	14.1

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	65	740	11.306	150	1730	11.53	7	322	44.72 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining

Date: June 7,2004
Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 150 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	**06-04 Nation Fuel Horse Point St 43-32**
Operator:	**Nation Fuel Corp**
String type:	Intermediate
Project ID:	43-047-35685
Location:	Uintah County

Design parameters:

Collapse
Mud weight: 8.500 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 1,452 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,650 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 1,442 ft

Environment:
H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 88 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 250 ft

Cement top: Surface

Non-directional string.

Re subsequent strings:
Next setting depth: 8,500 ft
Next mud weight: 9.500 ppg
Next setting BHP: 4,195 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,650 ft
Injection pressure 1,650 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	1650	9.625	36.00	J-55	ST&C	1650	1650	8.796	117.5

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	729	2020	2.773	1650	3520	2.13	59	394	6.63 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining

Date: June 7,2004
Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 1650 ft, a mud weight of 8.5 ppg The casing is considered to be evacuated for collapse purposes.
Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	**06-04 Nation Fuel Horse Point St 43-32**
Operator:	**Nation Fuel Corp**
String type:	Production
Location:	Uintah County

Project ID: 43-047-35685

Design parameters:

Collapse
Mud weight: 9.500 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 486 psi
Internal gradient: 0.436 psi/ft
Calculated BHP 4,195 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 7,293 ft

Environment:
H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 184 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 220 ft

Cement top: 2,346 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	8500	4.5	11.60	N-80	LT&C	8500	8500	3.875	197

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4195	6350	1.514	4195	7780	1.85	99	223	2.26 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining

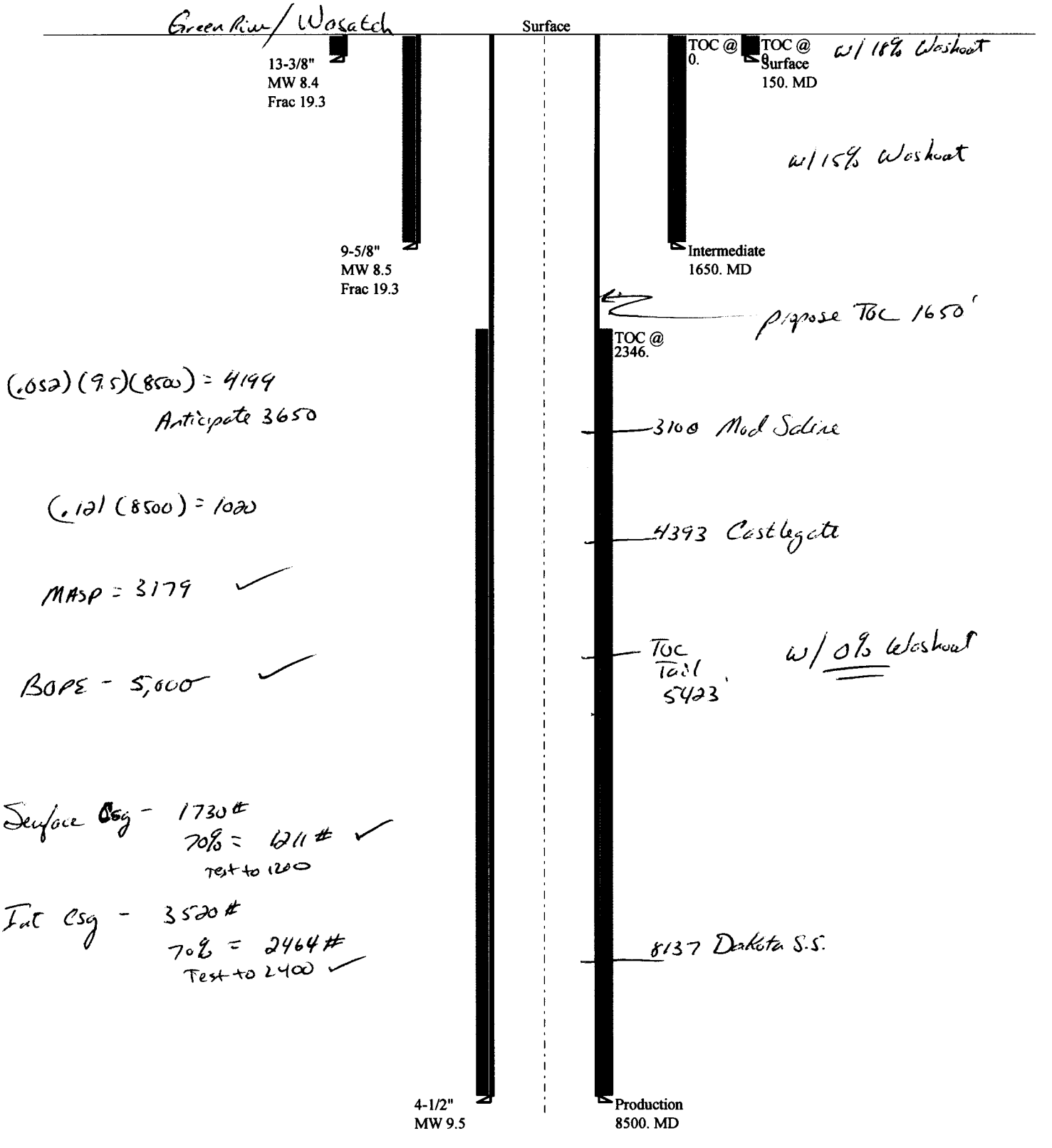
Date: June 7,2004
Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 8500 ft, a mud weight of 9.5 ppg The casing is considered to be evacuated for collapse purposes.
Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

06-04 Nation Fuel Horse Point St 43-32

Casing Schematic



State of Utah

OLENE S. WALKER
Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

Department of Community and Economic Development
DAVID HARMER
Executive Director

Division of State History / Utah State Historical Society
PHILIP F. NOTARIANNI
Division Director

RECEIVED
JUN 21 2004
DIV. OF OIL, GAS & MINING

June 16, 2004

Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City UT 84114-5801

RE: Horse Point State #43-32 Well

In Reply Please Refer to Case No. 04-0651

The Utah State Historic Preservation Office received the above information on June 15, 2004. The report states that no cultural resources were located in the project area. We, therefore, concur with the report's recommendation of No Historic Properties Affected.

This information is provided on request to assist with state law responsibilities as specified in U.A.C. 9-8-404. If you have questions, please contact me at (801) 533-3555. My email address is: jdykman@utah.gov

As ever,

James L. Dykmann
Deputy State Historic
Preservation Officer - Archaeology

JLD:04-0651 Lands/NPA

c: Grand River Institute, P. O. Box 3543, Grand Junction, CO 81502

Class III Cultural Resource Inventory Report
on the
Proposed Horse Point State #43-32 Well Location, Short New Pipeline,
and New and To-Be-Upgraded Access Routes on
State and Private Lands in Uintah and Grand Counties, Utah
for
National Fuel Corporation

Declaration of Negative Findings

GRI Project No. 2420

9 June 2004

Prepared by

Grand River Institute
P.O. Box 3543
Grand Junction, Colorado 81502
UDSH Project Authorization No. U04-GB-0472s,p

Carl E. Conner

Carl E. Conner, Principal Investigator

Submitted to

Preservation Office
Utah Division of State History
300 Rio Grande
Salt Lake City, Utah 84101

Abstract

Grand River Institute conducted a Class III cultural resources inventory for the proposed Horse Point State #43-32 well location, a short new pipeline route, and new and to-be-upgraded access routes in Uintah and Grand Counties, Utah for National Fuel Corporation under Utah Division of State History (UDSH) Project Authorization No. U04-GB-0472s,p. This work was done to meet requirements of State law that protect cultural resources. A files search conducted through the Preservation Office UDSH on 26 May 2004 indicated no sites were previously recorded in the study area. Field work was performed on 27 May and 8 June of 2004. A total of about 66.30 acres was inspected (62.3 acres of State land, 4.0 acres of private land). No cultural or paleontological resources were encountered and clearance is recommended.

Table of Contents

Tables and Figures

Introduction

At the request of National Fuel Corporation, a Class III cultural resources inventory for the proposed Horse Point State #43-32 well location, a short new pipeline route, and new and to-be-upgraded access routes in Uintah and Grand Counties, Utah under Utah Division of State History (UDSH) Project Authorization No. U04-GB-0472s,p. The files search, survey and report were prepared by Carl E. Conner (Principal Investigator). A files search conducted through the Preservation Office UDSH on 26 May 2004 indicated no sites were previously recorded and no cultural resources surveys were completed within the study area. Field work was performed on 27 May and 8 June 2004. A total of about 66.3 acres was inspected (62.3 acres of State land, 4.0 acres of private land).

The survey was done to meet requirements of State law concerned with the identification, evaluation, and protection of fragile, non-renewable evidences of human activity, occupation and endeavor reflected in districts, sites, structures, artifacts, objects, ruins, works of art, architecture, and natural features that were of importance in human events. Such resources tend to be localized and highly sensitive to disturbance.

Location of Project Area

The study area lies in the Roan Plateau in Uintah and Grand Counties, Utah. The study areas are located in T. 15 S., R. 23 E., Sections 32 and 33; T. 15 ½ S., R. 23 E., Section 35; T. 16 S., R. 23 E., Sections 1 and 2; and T. 16 S., R. 24 E., Sections 6 and 7; SLBM (Figure1).

Environment

The project area is within the major geologic subdivision of the Colorado Plateau known as the Uinta Basin Section. In Utah, this section extends from the Uinta Mountains on the north to the Book Cliffs on the south. It is a broad downwarp into which Quaternary- and Tertiary-age deposits were made from the surrounding mountains which include Holocene and Pleistocene pediment deposits, and Eocene-age fluvial and lacustrine sedimentary rocks (Rigby 1976:xi). Physiographically, the basin includes the Uinta basin in the northern portion and the Book Cliffs/Roan Plateau in the south portion. The study area occurs in the latter and the Wasatch Formation forms the bedrock. Rocky, sandy loams formed in residuum cover the bedrock on the ridgetop.

Elevation in the project area averages 7950 feet. The terrain is characterized as a narrow ridgetop covered in Transitional Zone oakbrush, sagebrush, serviceberry and grasses, with an occasional juniper or pinyon. Regional faunal inhabitants include deer, antelope, elk, black bear, coyote, mountain lion, cottontails, jack rabbits, and various raptores.

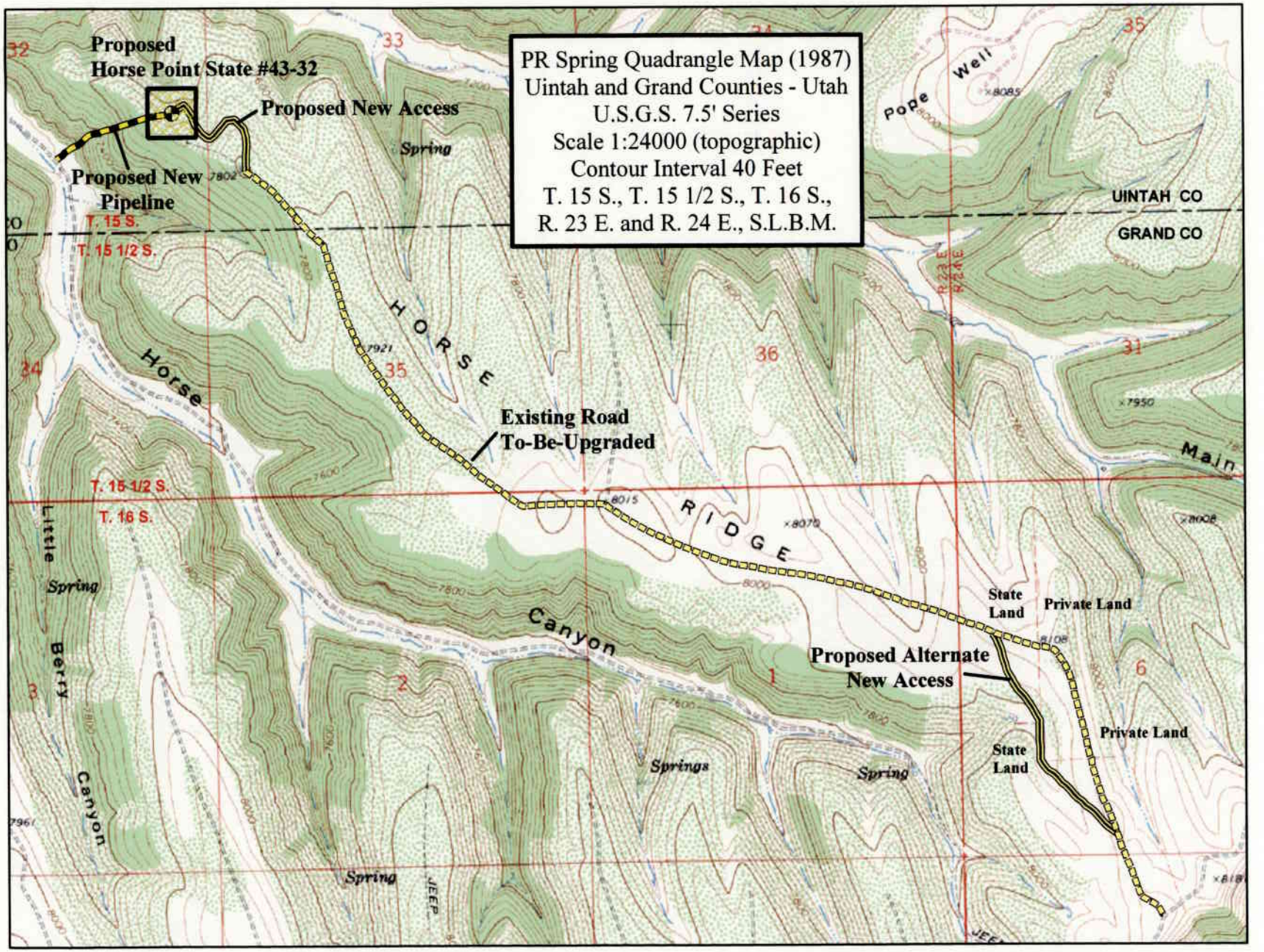


Figure 1. Project location map for the Class III cultural resource inventory of the proposed Horse Point State #43-32 well location, short new pipeline, and new and to-be-upgraded access routes on State and private lands in Uintah and Grand Counties, Utah, for National Fuel Corporation. Areas surveyed are highlighted. [GRI Project # 2420, 6/09/04]

A cool, mid-latitude steppe climate prevails. Annual precipitation of this elevation range is between 14 and 18 inches. Temperatures can reach 95°F in mid-summer and -20°F in January. Paleoenvironmental data are scant, but it is generally agreed that gross climatic conditions have remained fairly constant over the last 12,000 years. However, changes in effective moisture, and cooling-warming trends probably affected the prehistoric occupation of the region.

Files Search

Regional archaeological studies suggest nearly continuous human occupation of northeastern Utah for the past 12,000 years. Evidence of the Paleoindian Tradition, the Archaic Tradition, Fremont Culture, and Protohistoric/Historic Utes has been found. Historic records suggest occupation or use by EuroAmerican trappers, settlers, miners, and ranchers as well. Overviews of the prehistory and history of the region are provided in the Utah BLM Cultural Resource Series No. 5, Sample Inventories of Oil and Gas Fields in Eastern Utah (Nickens and Larralde 1980).

A files search conducted through the Preservation Office UDSH on 26 May 2004 indicated no sites were previously recorded in the study area. Seven energy related projects have been conducted within a mile of the present study area (Table 1.). One prehistoric cultural site (42UN3145) was recorded with project U-02-NU-0340b,s. It is located in the bottom of Main Canyon and well outside of the present project area.

Table 1. List of previous cultural resource surveys within one mile of the study area.

Report Number	Project
U-03-AY-0911s	EOG Resources Inc.; Trail Canyon #2-34: A Cultural Resource Inventory for a well pad, and its access and pipeline, Grand County, Utah (Truesdale, 12/1/2003)
U-02-NU-0340b,s	Class III Cultural Resource Inventory on the WesternGeco Horse Point 3D Seismic Grid, Uintah and Grand Counties, Utah (Frizell et al., 9/18/2002)
U-01-MQ-0289b,p,s	Cultural Resource Inventory of Well Locations Fence Canyon Delambert #30-2, Fence Canyon #31-2 and Fence Canyon #32-2, Uintah County, Utah (Montgomery, 6/02/2001)
U-01-MQ-0531s	Cultural Resource Inventories of Well Locations Fence Canyon #21-2, #29-2, #32-2 and #33-4, Grand and Uintah Counties, Utah (Montgomery, 8/17/2001)

U-01-MQ-0721b,s	Cultural Resource Inventory of Louis Dreyfus Natural Gas Corporation's Fence Canyon #32-2 Pipeline, Unitah County, Utah (Montgomery, 10/29/2001)
U-85-MM-0431s	PR Springs Tar Sands Exploration Project (24 drill holes) for Mobile Alternative Energy, Inc. in Grand and Unitah Counties, Utah (Metcalf, 6/25/1985)
81-NH-0642b	Three Drill Pads on Seep Ridge for Texas Oil and Gas Corp., in Uintah County, Utah (Nickens, 7/23/1981)

Study Objectives

The purpose of the study was to identify and record all cultural resources within the area of potential impact and to assess their significance and eligibility to the National Register of Historic Places (NRHP). Paleontological resources were also considered in the inspection. However, a final evaluation of those resources must be provided by a paleontologist permitted by the State of Utah.

Field Methods

A Class III, 100% pedestrian, cultural resources survey of the proposed well location was made by a two-person crew walking a series of concentric circles around the flagged center to a diameter of 750 feet. The related pipeline route (1430 feet), new access and alternate new access routes (4860 feet) were inspected by walking a series of parallel transects along both sides of the flagged centerline spaced at 15-meter intervals to cover a 100 foot-wide swath. Additionally, the existing to-be-upgraded access road (18310 feet) was inspected along both sides in the same manner. A total of about 66.3 acres (10 block/56.3 linear) was intensively surveyed.

Cultural resources were sought as surface exposures and were characterized as sites or isolated finds. Sites were defined by the presence of six or more artifacts and/or significant features indicative of patterned human activity. Isolated finds were defined by the presence of a single artifact or several artifacts, which apparently represent a single event (e.g., a single core reduction, or small historic can cluster), and is surficial in nature. Artifacts were to be pin-flagged to establish site boundaries, sketch maps were to be drawn (using a Garmin GPS V unit), and photographs were to be taken. Cultural resources encountered were to be recorded to standards set by the Preservation Office of the Utah Division of State History. None were found.

Study Findings and Management Recommendations

As expected, no cultural or paleontological resources were encountered during the survey. Accordingly, cultural resource clearance is recommended.

References

Nickens, Paul R. and Signa L. Larralde
1980 Sample Inventories of Oil and Gas Fields in Eastern Utah. Utah BLM Cultural Resource Series No. 5. Bureau of Land Management, Salt Lake City.

Rigby, J. Keith
1976 Northern Colorado Plateau. Kendall/Hunt Publishing Company. Dubuque.

From: Ed Bonner
To: Whitney, Diana
Date: 6/21/2004 11:06:45 AM
Subject: Well Clearance

The following wells have been given cultural resource clearance by the Trust Lands Cultural Resources Group:

National Fuel Corporation
Horse Point State 43-32

ChevronTexaco
State of Utah "SS" 22-165

Westport Oil & Gas Company
State 1022-32I (alternate location)
State 1022-32M

The Houston Exploration Company
Rock House 2D-36
Rock House 2D-32
Rock House 10D-32
Rock House 12D-32
Southman Canyon 8C-36
Southman Canyon 14C-36
Southman Canyon 16C-36

If you have any questions regarding this matter please give me a call.

CC: Garrison, LaVonne; Hill, Brad; Hunt, Gil

004

State of Utah

Department of
Natural Resources

ROBERT L. MORGAN
Executive Director

Division of
Oil, Gas & Mining

LOWELL P. BRAXTON
Division Director

OLENE S. WALKER
Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

June 22, 2004

National Fuel Corporation
7979 E Tufts Ave., #815
Denver, CO 80237

Re: Horse Point State #43-32 Well, 1650' FSL, 510' FEL, NE SE, Sec. 32, T. 15 South, R. 23 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-35685.

Sincerely,

for John R. Baza
Associate Director

pab
Enclosures

cc: Uintah County Assessor
SITLA

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

Operator: National Fuel Corporation

Well Name & Number Horse Point State #43-32

API Number: 43-047-35685

Lease: ML-46629

Location: NE SE **Sec.** 32 **T.** 15 South **R.** 23 East

Conditions of Approval

1. **General**
   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. **Notification Requirements**
   The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:
   - 24 hours prior to cementing or testing casing
   - 24 hours prior to testing blowout prevention equipment
   - 24 hours prior to spudding the well
   - within 24 hours of any emergency changes made to the approved drilling program
   - prior to commencing operations to plug and abandon the well

   The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):
   - Dan Jarvis at (801) 538-5338
   - Carol Daniels at (801) 538-5284 (spud)

3. **Reporting Requirements**
   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

6. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

7. A 4 ½ production casing cement should be brought up to a mininum of 2500' to adequately protect moderate saline ground water.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: **NATIONAL FUEL CORPORATON**

Well Name: **HORSE POINT ST 43-32**

Api No: **43-047-35685** Lease Type: **STATE**

Section **32** Township **15S** Range **23E** County **UINTAH**

Drilling Contractor **PETE MARTIN** RIG # **BUCKET**

SPUDDED:

Date **07/8/04**

Time **7:00 PM**

How **DRY**

Drilling will commence:

Reported by **ANDY**

Telephone # **1-970-858-7490**

Date **0713/2004** **Signed** **CHD**

006

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: National Fuel Corporation
Address: 7979 E. Tufts Ave. Pkwy., #815
city Denver
state Co. zip 80237

Operator Account Number: N 8060

Phone Number: (303) 220-7772

Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
43-047-35685	Horse Point State #43-32	NWSE	32	15S	23E	Uintah

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date
A	99999	14230	7/7/2004	7/21/04

Comments: MRSN

K

Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date

Comments:

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date

Comments:

RECEIVED
JUL 16 2004
DIV. OF OIL, GAS & MINING

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Andrew Busch
Name (Please Print)

Andrew Busch
Signature

V.P.
Title

7/11/04
Date

(5/2000)

007

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-46629

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: Horse Point State #43-32

2. NAME OF OPERATOR: National Fuel Corporation

9. API NUMBER: 4304735685

3. ADDRESS OF OPERATOR: CITY Denver STATE Co ZIP 80237

PHONE NUMBER: (303) 220-7772

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 510 fel, 1650 fsl

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 15S 23E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 7/12/2004	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☑ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This sundry notice is being submitted to request approval for changing B.O.P. during drilling operations from a 5000# as stated in original APD to a 3000# B.O.P. system. Maximum surface pressures are not expected to exceed 2100# at surface. Other wells in the area are significantly lower than 3000# during initial completion.

COPY SENT TO OPERATOR
Date: 7-19-04
Initials: CHD

NAME (PLEASE PRINT) Andrew Busch TITLE V.P. of Operations

SIGNATURE Andrew Busch DATE 7/5/2004

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 7/16/04
BY:
MASP = 2325 psi

(See Instructions on Reverse Side)

RECEIVED
JUL 16 2004
DIV. OF OIL, GAS & MINING

(5/2000)

Well name:	**06-04 Nation Fuel Horse Point St 43-32**
Operator:	**Nation Fuel Corp**
String type:	Production
Location:	Uintah County
Project ID:	43-047-35685

Design parameters:

Collapse
Mud weight: 9.500 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 2,325 psi
Internal gradient: ~~0.220 psi/ft~~
Calculated BHP 4,195 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

3M BOPE Adequate DWS

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 7,293 ft

Environment:
H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 184 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 220 ft

Cement top: 2,346 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	8500	4.5	11.60	N-80	LT&C	8500	8500	3.875	197

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4195	6350	1.514	4195	7780	1.85	99	223	2.26 J

Prepared by: Clinton Dworshak, Utah Div. of Oil & Mining
Date: July 16,2004
Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 8500 ft, a mud weight of 9.5 ppg The casing is considered to be evacuated for collapse purposes.
Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

August 2, 2004

GEOLOGIC REPORT

National Fuel Corporation, Horse Point State #43-32

API No. 430473568500
1650' FSL & 510' FEL, Sec. 32-T15S-R23E.
Uintah County, Utah

Geographic Coordinates:
0641292 E; 43696996N

Formation Tops (from logs):

Surface: Green River/Wasatch	
Mesaverde	2335'
Castlegate	4373'
Mancos	4440'
Mancos "B"	5122'
Base Mancos "B"	5861'
Dakota silt	8080'
Dakota Sandstone	8166'
Cedar Mountain ss.	8261'
Morrison fm.	8326'
TD	8427'

Introduction

The use of a light, fresh water (+ DAPP) drilling fluid in this well almost certainly prevented any major pipe-sticking event during drilling. With the inherent problems associated with directionally steered penetration, including radical changes in inclination and azimuth, no amount of precaution is/was wasted. Even so, overall down hole progress was below expectations.

The wellsite (the physical location) is on the edge of a deep drainage way, consequently the location was a bit confined. When I came on location (at a depth of 3207'), July 16, the hole inclination was 4 ½ degrees in a S77E direction. The instructions were to maintain a southeasterly or easterly direction. We slowed the penetration rate to prevent excessive hole deviation. Steering tools were on their way to the location, and finally arrived at a depth of 4006 feet. Stratigraphically, this level is in the lower Mesaverde Group, not far above the Sego sandstone marker. The Sego is a fine-grained "salt & pepper" sandstone above the Buck Tongue shale and the Castlegate sandstone. We penetrated the top of the Castlegate at 4386' (measured), actually 4373' on log. No gas shows were noted in the Castlegate, perhaps owing to gas chromatograph malfunction in the mud logging trailer. (This problem remained until the equipment was repaired at a depth of5790'.) The significant increase in ROP at 4440' signaled the top of the Mancos Shale.

The directional drilling mode had changed directions from an anticipated down hole end point of about 270 feet due east of the surface location to a new heading which would aim for a vertical location point from 250'-500' due west of the surface location. This abrupt change in direction was destined to cause problems down hole with not only the re-direction, but several attendant factors such as pipe dragging on hole walls which ultimately caused a substantial decrease in penetration rate. The ultimate decision to take the standard drill pipe and collars out of the string and replace with heavy-weight pipe was helpful in getting the hole drilled to TD without major problems. However, keeping the hole free of tight points required the precaution of hole-sweeping wiping runs, bringing the bit up to the casing seat every 30 hours. These are some of the precautions mentioned in the introduction that, in my opinion, saved the operation from suffering disastrous stuck pipe.

The Mancos "B" section (siltstone and shaly, fine sandstone) was penetrated at 5136' (log). With the gas chromatograph still not fully operational, the generally low gas detection through the Mancos "B" section is difficult to interpret. Clean, dark gray Mancos shale marked the bottom of the "B" interval at about 5900'. The hole inclination at 5917' was 7 ¾ degrees at a azimuth of 264 degrees, almost due west, as desired.

From 6100 feet downward, the nominal background gas shown on the repaired gas detection equipment was about 4000 units (ppm). At bout 6435', drilling was shut down to begin the hole sweeping wiping run, with the bit brought all the way up to the casing shoe at 1630'.

Continuous effort had to be made to maintain a westerly penetration direction. Typical of rotary bit propagation, the inclined hole tended to migrate directionally in a counter-clockwise direction. For example, at 4827' a survey showed 10 ¼ degrees inclination @ 290 degrees (WNW). AT 5917' the hole was inclined at 7 ¾ degrees @ 264 (WSW). Most of the counter-clockwise migration that occurred with rapid rotation of the bit could be offset by sliding back toward the west, with a consequent slowing of ROP. The more th sliding became necessary, the slower the ROP. From 6511' to 6523', sliding accomplished 12 feet in 95 minutes. The hole was so crooked that drill pipe was working against itself by contacting the hole wall in several places. This reduced the effective WOB significantly. Ultimately, it was decided to shut down the drilling and replace the old downhole motor and pick up the heavy-weight drill pipe. When the PDC bit was pulled, the short blades were packed with bentonitic clay mud, seriously impeding progress down hole.

Back on bottom, drilling in Mancos shale with the heavy-weight drill pipe, rotating (not sliding) provided an ROP of 0.75 FPM or better. Survey at 6619' showed 7.9 deg. @ 263. Gas units were holding at about1100 units. In an attempt to make better down hole progress and still keep a more or less westerly heading, the WOB and the rotary speed in RPM were increased substantially. The survey at 6852', after 230 feet of drilling at that increased pace, showed 4.8 deg. @ 240.7 deg. azimuth. Heading is still migrating counter-clockwise. We began sliding again, slowing the ROP, to turn the direction back to the west. Drilling progress now 14 MPF (at 7079').

Further attempts to allow the bit to "kick out" toward the west included an 11,000 lbs. WOB and ROP of 120 FPH. This effort produced a survey of 6 deg. @ 229. (TVD of 7119'). But the next 500 feet of deepening showed a survey of 2.3 deg. @ 167. Clearly, sliding is required part of the time to maintain hole inclination and direction, reduced ROP notwithstanding. Gas detector showed steadily increasing gas from 7000 feet in silty interval in the Mancos.

Below 7000 feet the hole inclination dropped to 2.63 deg. and the counter-clockwise trend continued as ROP increased. Sliding was again instituted. Gas agitator equipment was moved from the 'possum belly' to the lower tray of the shaker. The shaker was necessarily bypassed temporarily which allowed a major recycling of cuttings. This, along with the other problems of down hole sample integrity, caused some concern about exactly where the bit was located with respect to the stratigraphy. Counter-clockwise bit direction continued, as rotation began again. Survey at 770' was 2.3 deg. @ 167 deg. (ESE). Sliding was re-initiated to bring the direction back to 201 deg. azimuth at 8200'.

The lower 500 feet of the hole was drilled with a weak (badly damaged/worn) PDC bit that finally seized/locked at 8427 feet. In addition to all the uphole problems with the constant battle to keep the hole clear and easily accessible, the critical lower portion of the hole was drilled with a failing bit. The bit cuttings were of no significant value below 8200 feet. Further, a pinched gas diffusion line from the shaker/agitator to the mud logging trailer left us with no gas show information across the critical intervals below 8200 feet. These situations left no room for valid interpretations of the downhole location of the Dakota silt, Dakota sandstone, or the Cedar Mountain sandstone. Finally the slowed ROP allowed us to get enough sample information to locate the top of the Morrison, and drill another 100 plus feet for rathole. TD was called at 8427 feet when the bit finally gave out. Unfortunately the little sandstone in the upper part of the Morrison that we believed had some potential was not well developed, as shown on the log.

In many wells in this general area the Dakota Group includes two sandstone bodies in a nominal 100-feet interval. This interval is remarkably constant in thickness so as to vary only about 10% in thickness. Individual ("first" and "second" Dakota sandstones) in local terminology commonly co-occur, but with one of the sands occupying up to 30-40% of the vertical (100') thickness, and the other sand, if present, being under-developed. This phenomenon is common in delta plain paleoenvironments. From the standpoint of depositional reservoir development, this is the optimum condition: one thick sandstone encased in coaly shales within the nominal 100-foot thickness. Two sands in that interval mean two separate, (but thin) potential reservoir sands constrained by the maximum interval thickness. Besides the sand(s) within the 100-foot interval, there must also be up to 50 % non-sandy sediments such as coaly or silty shales. The current well, with only one sand (deltaic channel deposit) in the Dakota interval, presents a 30'-40' thick potential reservoir. The same situation occurs below in the Cedar Mountain interval. That interval commonly has two sand units, the main Cedar Mountain channel sand and the underlying "Buckhorn" sandstone (in local parlance). The only real

difference between the two stratal packages is that the Cedar Mountain is not quite as consistent (regionally) in interval thickness, i.e., 100 feet nominal for Dakota and as little as 70 feet for the Cedar Mountain.

In this well we have essentially the best possible potential reservoir situation in the Dakota: one thick potential reservoir sandstone tightly enclosed in source bed deposits. If the local faulting and attendant fractures have not allowed the reservoir gasses to escape, the produce very well and the gas-in-place calculations should be relevant. That means that about 500 MMCFG could be available (recovered?) from the local 40-acre block (based on my earlier GIP and recovery estimates.

The Cedar Mountain sand (8262'-8302') appears to be water wet, except in the two thin porous zones at 8269' and 8289' where water saturations are apparently low. However, care must be taken, if completion is attempted in the Cedar Mountain, not to frac into the water-wet zones lower in the unit.

Respectfully,

J. Dan Powell
Registered Professional Geologist

43-32 surveys 7-24-04

Computalog

Client : NATIONAL FUEL CORP.
Well Name : HORSE POINT 43-32
Location : 32 - 15S - 23E
KB Elevation : 7656
License :
UWI :

Page : 1 of 1
Date : 2004/07/24
File :
Gr Elevation : 7641.00

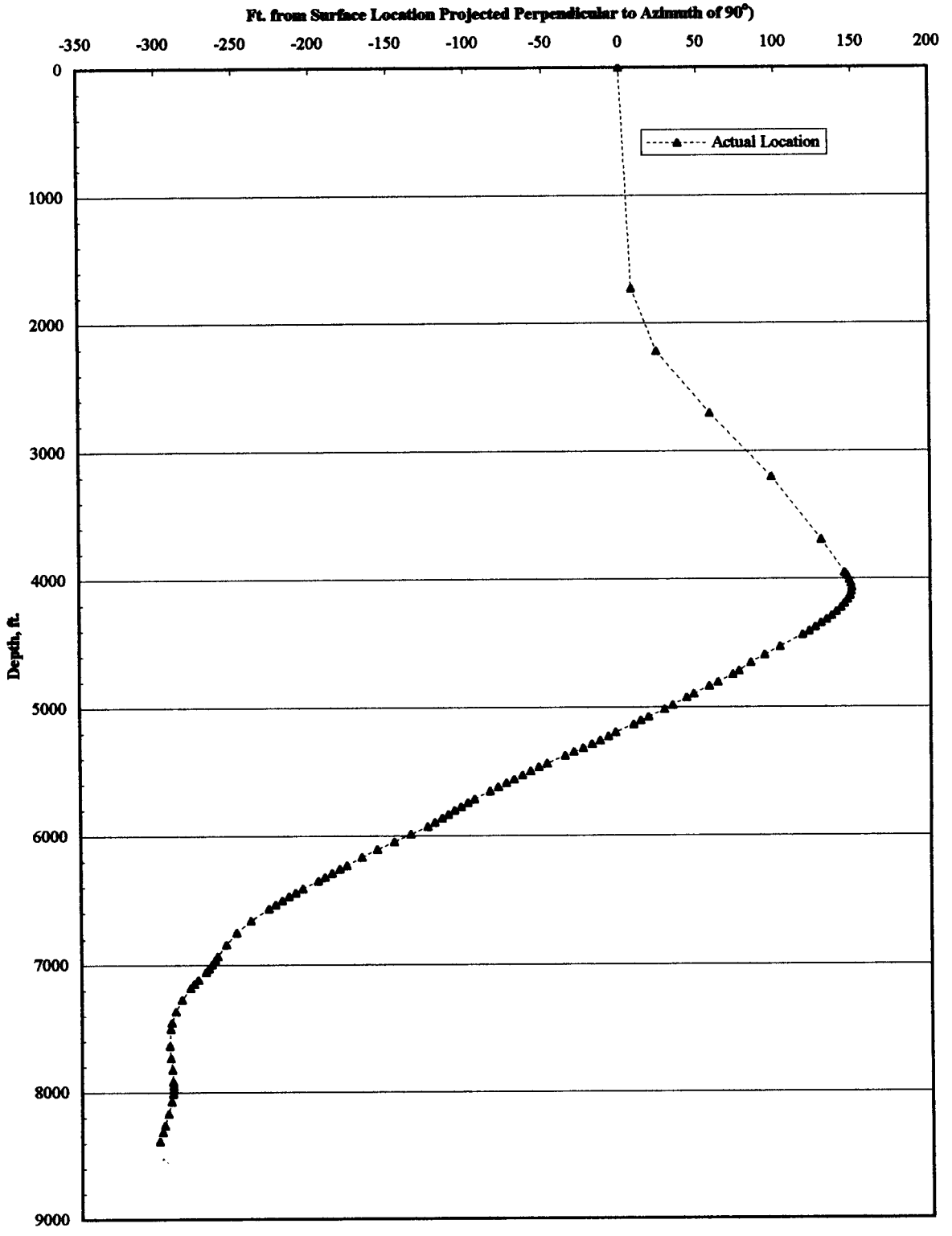
Vertical Section Calculated Along Azimuth 270°

MD ft	Inc deg	Azi deg	TVD ft	D'Leg °/100	T'Face deg	Lat ft	Dep ft	V'Sect ft	Bearing deg
0.00	0.00	0.00	0.00	0.00	102.95	0.00	0.00	0.00	0.00
1727.00	0.50	102.95	1726.98	0.03	347.90	-1.69	7.34	-7.34	102.95
2219.00	3.19	92.73	2218.68	0.55	34.02	-2.82	23.11	-23.11	96.96
2707.00	5.00	105.85	2705.42	0.42	163.80	-9.28	57.14	-57.14	99.22
3204.00	4.19	109.10	3200.82	0.17	143.53	-21.13	95.13	-95.13	102.53
3695.00	3.38	120.10	3690.75	0.22	67.61	-34.26	124.60	-124.60	105.38
3958.00	3.56	126.33	3953.27	0.16	152.17	-42.99	137.89	-137.89	107.32
3982.91	3.50	126.85	3978.13	0.27	130.37	-43.90	139.12	-139.12	107.51
4012.66	3.06	137.85	4007.84	2.57	131.28	-45.04	140.38	-140.38	107.79
4042.62	2.44	159.60	4037.76	4.01	122.47	-46.23	141.14	-141.14	108.14
4072.52	2.06	189.85	4067.64	4.11	117.08	-47.35	141.27	-141.27	108.53
4103.80	1.94	235.98	4098.90	5.02	60.05	-48.20	140.73	-140.73	108.91
4135.29	2.54	254.60	4130.37	2.97	11.86	-48.69	139.62	-139.62	109.22
4166.61	3.88	258.73	4161.64	4.34	2.20	-49.08	137.91	-137.91	109.59
4198.41	4.69	259.11	4193.35	2.55	42.41	-49.53	135.58	-135.58	110.07
4229.81	5.25	264.48	4224.63	2.32	42.33	-49.91	132.89	-132.89	110.59
4261.16	5.88	269.86	4255.83	2.61	9.55	-50.06	129.85	-129.85	111.08
4292.34	6.56	270.86	4286.83	2.21	70.88	-50.03	126.48	-126.48	111.58
4322.01	6.81	276.23	4316.30	2.27	65.00	-49.82	123.03	-123.03	112.04
4351.97	7.19	282.11	4346.04	2.71	51.14	-49.23	119.43	-119.43	112.40
4383.21	7.56	285.48	4377.02	1.82	35.53	-48.27	115.54	-115.54	112.67
4413.11	7.75	286.48	4406.65	0.78	4.10	-47.18	111.71	-111.71	112.89
4444.38	8.25	286.73	4437.62	1.60	29.40	-45.93	107.54	-107.54	113.13
4536.75	9.75	291.61	4528.85	1.82	186.96	-41.14	93.92	-93.92	113.66
4599.80	8.81	290.86	4591.07	1.50	191.94	-37.46	84.45	-84.45	113.92
4662.24	7.50	288.73	4652.88	2.15	225.49	-34.45	76.12	-76.12	114.35
4723.94	7.13	285.61	4714.08	0.88	6.06	-32.12	68.62	-68.62	115.09
4753.74	8.13	286.36	4743.61	3.37	7.99	-31.03	64.81	-64.81	115.58
4815.07	10.38	288.11	4804.14	3.70	112.14	-28.09	55.40	-55.40	116.89
4846.32	10.25	289.98	4834.89	1.15	194.88	-26.27	50.11	-50.11	117.66
4907.47	9.25	288.32	4895.15	1.70	179.45	-22.86	40.33	-40.33	119.55
4937.17	8.63	288.36	4924.49	2.09	42.22	-21.41	35.95	-35.95	120.78
4997.02	9.50	292.98	4983.59	1.89	35.31	-18.07	27.14	-27.14	123.65
5027.75	10.13	295.48	5013.88	2.47	113.77	-15.92	22.37	-22.37	125.43
5088.95	9.75	301.23	5074.16	1.74	191.21	-10.91	13.08	-13.08	129.84
5119.79	9.06	300.36	5104.58	2.28	23.97	-8.33	8.75	-8.75	133.60
5149.71	9.38	301.23	5134.12	1.17	267.78	-5.88	4.63	-4.63	141.75
5211.86	9.38	296.73	5195.44	1.18	267.47	-0.97	-4.22	4.22	257.02
5243.24	9.38	291.61	5226.40	2.66	318.14	1.12	-8.88	8.88	277.18
5274.66	9.69	289.98	5257.38	1.31	23.05	2.97	-13.75	13.75	282.17
5306.33	10.44	291.73	5288.57	2.56	46.93	4.94	-18.92	18.92	284.63
5337.78	10.94	294.48	5319.47	2.27	24.24	7.23	-24.28	24.28	286.58
5367.66	11.38	295.48	5348.78	1.61	260.98	9.67	-29.52	29.52	288.14
5397.42	11.31	292.86	5377.96	1.75	226.78	12.07	-34.86	34.86	289.10
5458.59	10.44	287.48	5438.04	2.18	216.15	16.06	-45.68	45.68	289.38

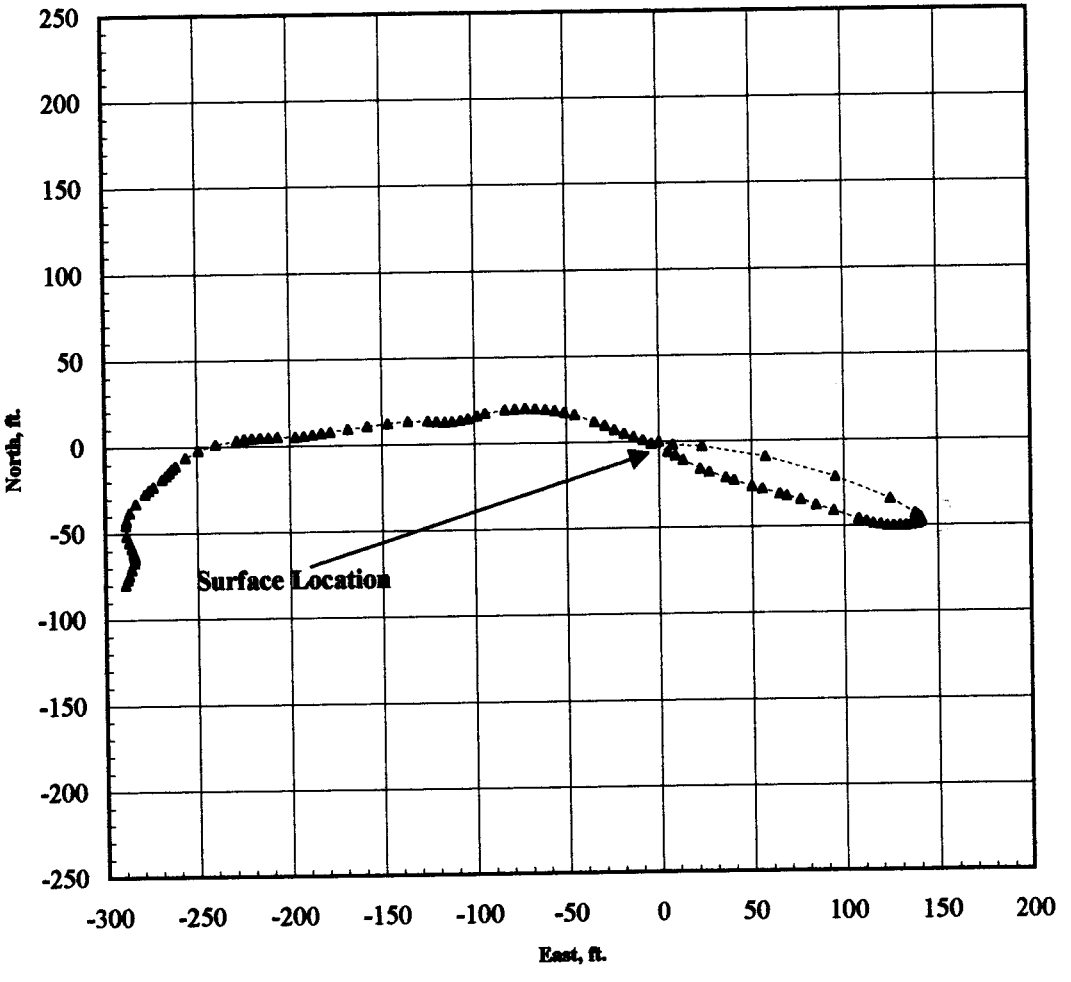
5489.97	9.81	284.73	5468.93	2.53	257.37	17.60	-50.97	50.97	289.05
5521.32	9.63	278.36	5499.83	3.48	319.83	18.66	-56.15	56.15	288.38
5552.57	9.94	276.86	5530.62	1.28	273.93	19.36	-61.42	61.42	287.50
5583.96	10.00	273.36	5561.54	1.94	287.30	19.84	-66.83	66.83	286.54
5614.88	10.25	269.30	5591.98	2.45	275.41	19.97	-72.26	72.26	285.45
5646.16	10.31	266.48	5622.76	1.62	276.71	19.76	-77.83	77.83	284.25
5677.59	10.38	263.73	5653.68	1.59	241.14	19.28	-83.46	83.46	283.01
5738.67	9.69	255.10	5713.82	2.71	209.34	17.36	-93.89	93.89	280.47
5768.57	8.94	252.35	5743.33	2.92	111.64	16.01	-98.54	98.54	279.23
5799.80	8.81	254.60	5774.19	1.19	121.81	14.64	-103.16	103.16	278.07
5829.75	8.38	259.73	5803.80	2.93	135.73	13.64	-107.52	107.52	277.23
5860.97	7.75	264.48	5834.71	2.94	75.57	13.03	-111.85	111.85	276.64
5890.89	7.94	269.11	5864.35	2.20	43.53	12.80	-115.92	115.92	276.30
5922.29	8.75	273.98	5895.42	3.42	2.93	12.93	-120.48	120.48	276.13
5952.07	9.56	274.23	5924.82	2.72	302.42	13.27	-125.20	125.20	276.05
6014.70	10.44	267.23	5986.50	2.39	263.80	13.38	-136.06	136.06	275.62
6075.91	10.38	261.98	6046.70	1.55	122.06	12.35	-147.06	147.06	274.80
6137.08	10.31	262.61	6106.88	0.22	196.93	10.87	-157.94	157.94	273.94
6198.09	9.50	261.11	6166.98	1.39	191.88	9.39	-168.33	168.33	273.19
6260.39	8.69	259.98	6228.50	1.33	351.16	7.78	-178.04	178.04	272.50
6291.66	8.94	259.73	6259.40	0.81	119.88	6.94	-182.76	182.76	272.17
6322.86	8.75	261.98	6290.23	1.26	82.80	6.17	-187.50	187.50	271.89
6354.06	8.81	264.61	6321.06	1.30	60.33	5.62	-192.23	192.23	271.67
6383.63	9.13	267.98	6350.27	2.08	151.58	5.32	-196.82	196.82	271.55
6445.93	8.88	268.86	6411.80	0.46	191.24	5.05	-206.57	206.57	271.40
6477.15	8.69	268.61	6442.66	0.62	205.17	4.95	-211.34	211.34	271.34
6506.47	8.06	266.48	6471.66	2.39	242.91	4.77	-215.61	215.61	271.27
6539.34	7.94	264.73	6504.21	0.83	269.45	4.42	-220.17	220.17	271.15
6569.26	7.94	263.61	6533.85	0.52	232.18	4.00	-224.28	224.28	271.02
6600.69	7.81	262.36	6564.98	0.68	223.83	3.47	-228.55	228.55	270.87
6694.50	6.88	254.35	6658.02	1.47	205.54	1.11	-240.28	240.28	270.26
6788.35	5.25	245.48	6751.34	2.00	236.70	-2.19	-249.60	249.60	269.50
6879.13	4.69	232.85	6841.79	1.35	245.52	-6.16	-256.34	256.34	268.62
6972.39	4.44	224.35	6934.75	0.77	268.75	-11.04	-261.90	261.90	267.59
7003.78	4.44	221.85	6966.05	0.62	352.39	-12.81	-263.56	263.56	267.22
7035.56	4.75	221.35	6997.72	0.98	49.43	-14.72	-265.25	265.25	266.82
7066.82	5.12	225.98	7028.87	1.74	359.00	-16.66	-267.11	267.11	266.43
7096.81	5.88	225.85	7058.72	2.53	62.62	-18.66	-269.17	269.17	266.03
7157.92	6.06	228.98	7119.50	0.61	204.35	-22.96	-273.85	273.85	265.21
7188.70	5.63	226.98	7150.12	1.55	178.34	-25.05	-276.18	276.18	264.82
7219.95	5.25	227.10	7181.23	1.22	218.14	-27.07	-278.35	278.35	264.45
7312.37	4.38	217.48	7273.32	1.28	202.35	-32.75	-283.59	283.59	263.41
7403.34	3.05	206.73	7364.10	1.64	249.38	-37.67	-286.80	286.80	262.52
7494.61	2.88	193.73	7455.25	0.76	264.82	-42.06	-288.43	288.43	261.70
7585.73	2.88	183.35	7546.25	0.57	235.19	-46.57	-289.11	289.11	260.85
7678.94	2.50	167.48	7639.36	0.89	274.35	-50.90	-288.81	288.81	260.01
7771.26	2.63	153.23	7731.59	0.70	186.31	-54.75	-287.42	287.42	259.21
7865.23	1.81	150.35	7825.49	0.88	59.45	-57.97	-285.71	285.71	258.53
7958.79	2.00	158.60	7919.00	0.36	59.45	-60.77	-284.38	284.38	257.94
8008.79	2.10	163.01	7968.97	0.38	91.86	-62.46	-283.80	283.80	257.59
8600.00	3.28	215.14	8559.59	0.44	39.78	-86.68	-290.38	290.38	253.38

Bottom Hole Closure 303.04ft Along Azimuth 253.38°

Section View of Horse Point State #43-32 Directional Surveys



Plan View of Horse Point State #43-32 Directional Surveys



pason
systems usa corp

www.pason.com
16100 Table Mountain Parkway Ste 100 • Golden • CO • 80403
720-880-2000 • FAX: 720-880-0016

008

August 2, 2004

John R. Baza
Department of Natural Resources
Division of Oil, Gas, & Mining
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: NATIONAL FUEL CORP.
HORSE POINT STATE #43-32
SEC. 32, T15S, R23E
UINTAH COUNTY, UT

API # 43-047-35685

Dear John,

Enclosed is the final computer colored log for the above referenced well.

We appreciate the opportunity to be of service to you and look forward to working with you again in the near future.

If you have any questions regarding the enclosed data, please contact us.

Sincerely,

Bill Nagel
Geology Manager
Pason Systems USA
BN/alb

Encl: 1 Final Computer Colored Log.

Cc: J.C. Thompson, National Fuels Corporation, Montecito, CA.

RECEIVED
AUG 0 6 2004
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-46629

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER: Horse Point State #43-32

9. API NUMBER: 4304735685

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR: National Fuel Corporation

3. ADDRESS OF OPERATOR: 7979 E. Tufts Ave.#815 CITY Denver STATE Co ZIP 80237

PHONE NUMBER: (303) 220-7772

10 FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: 510' FEL 1650' FSL

AT TOP PRODUCING INTERVAL REPORTED BELOW: 795' FEL 1580' FSL

AT TOTAL DEPTH: 799' FEL 1571' FSL 641138X 4369629Y 39.466563 -109.359329

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 15S 23E

12. COUNTY: Uintah

13. STATE: UTAH

14. DATE SPUDDED: 7/6/2004

15. DATE T.D. REACHED: 7/26/2004

16. DATE COMPLETED: 9/10/2004 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 7641' GL

18. TOTAL DEPTH: MD 8,425 TVD 8,385

19. PLUG BACK T.D.: MD 8,376 TVD 8,345

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

High Resolution Induction, Borehole Compensated Sonic
Spectral Density, Dual Spaced Neutron

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12 1/4	9 5/8 J55	36#	0	1,630		Type 3 655	195	Surface(cir)	
8 3/4	4 1/2 N80	11.6#	0	8,425	6,032	Type G 1,900	551	950(cal)	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8	8,266							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Dakota (Upper)	8,178	8,213	8,138	8,173
(B) Dakota (Lower)	8,265	8,300	8,225	8,260
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
8,178 8,213	0.41	70	Open ☑ Squeezed ☐
8,265 8,300	0.41	70	Open ☑ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
8178 to 8213	1500 gallons of 3% KCl water with 100 ball sealers
8265 to 8300	1500 gallons of 3% KCl water with 100 ball sealers

29. ENCLOSED ATTACHMENTS:

☑ ELECTRICAL/MECHANICAL LOGS ☑ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: Shut in

(5/2000)

(CONTINUED ON BACK)

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
10/18/2004	10/18/2004	96		0	612	0	orifice tester

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
.500	120	450	0.63	1,102			0	153	0	

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

see attached gas analysis

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Green River/Was	0	2,335	see attached geologic report		
Mesa Verde	2,335	4,373	no dst or cored intervals		
Castlegate	4,373	4,440			
Mancos	4,440	5,122			
Mancos B	5,122	8,080			
Dakota Silt	8,080	8,166			
Dakota Sand	8,166	8,261			
Cedar Mtn	8,261	8,326			
Morrisson	8,326	8,425			

35. ADDITIONAL REMARKS (Include plugging procedure)

(31) Formations in #26 were tested together.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Andrew Busch TITLE V.P. of Operations

SIGNATURE Andrew Busch DATE 12-14-04

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

RECEIVED
DEC 20 2004
DIV. OF OIL, GAS & MINING

(5/2000)

CQM, INC. ON-SITE GAS ANALYSIS
1523 W. AZTEC BLVD.
AZTEC, NM 87410 505-333-2003

U-1

Source:	NATIONAL FUEL CORP.	Report Date:	11/10/2004 20:02:50
Station #:	HORSE POINT #43-32	Sample Date:	11/10/2004
Station Name:		Flowing Pressure:	0 psig
Field:	WELLHEAD SAMPLE	Flowing Temp.:	0 F

Method: c:\mti\ezchrom\200\methods\unit2.met
File: c:\mti\ezchrom\200\chrom\hp4332.2

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	0.374	0.000	0.004	
Methane	89.188	902.883	0.494	
CO2	1.125	0.000	0.017	
Ethane	6.527	115.776	0.068	1.746
Propane	1.764	44.488	0.027	0.486
i-Butane	0.339	11.050	0.007	0.111
n-Butane	0.368	12.033	0.007	0.116
i-Pentane	0.157	6.296	0.004	0.057
n-Pentane	0.105	4.219	0.003	0.038
Hexanes	0.040	1.907	0.001	0.016
Heptanes	0.011	0.607	0.000	0.005
Octanes	0.002	0.125	0.000	0.001
Nonanes	0.000	0.000	0.000	
Ideal Total	100.000	1099.384	0.632	2.577
Unnormalized Total	99.542			

Gross BTU/Real Cu. Ft.
(@ 60 deg F, 14.730)
Dry = 1102.249
Sat. = 1084.318
Actual = 1102.249
(0.000 lbs. water/MMCF)

Gasoline Content
Propane GPM = 0.111
Butane GPM = 0.173
Gasoline GPM = 0.061
26# Gasoline GPM = 0.118
Total GPM = 2.577

Real Relative Density Calculated = 0.6332
On-Site Relative Density = 0.0000

Gas Compressibility = 0.9974

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

RECEIVED
JAN 12 2005
DIV. OF OIL, GAS & MINING

FORM 9

011

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-46629
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME:
8. WELL NAME and NUMBER: Horse Point State #43-32
9. API NUMBER: 4304735685
10. FIELD AND POOL, OR WILDCAT:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER
2. NAME OF OPERATOR: National Fuel Corporation
3. ADDRESS OF OPERATOR: 7979 E. Tufts Ave. #815 CITY Denver STATE Co ZIP 80237 PHONE NUMBER: (303) 220-7772
4. LOCATION OF WELL
FOOTAGES AT SURFACE: 510 fel, 1650 fsl COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 15S 23E STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☑ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion: 7/26/2004	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This sundry notice is being submitted to give reason for directionally drilling well that was permitted as vertical. After drilling out surface at 1824' on 7/16/04, PDC bit started drifting to the southeast. Measures taken to correct this deviation were unsuccessful. Continued drilling on this course would have resulted in a sub-surface location severely out of tolerance with state rules and regs. On 7/17/04 at a depth of 4006', decision was made to bring in directional equipment and personal to bring well back in to lease line tolerance. This was accomplished prior to drilling through potential gas producing formations. It was National Fuel Corporations intention to drill a straight hole. When the well did not cooperate, action was taken early to help mitigate problems that would have been encountered in trying to sharply steer a bit in the lower section of the well.

Accepted by the Utah Division of Oil, Gas and Mining
Date: 03-10-05
By:

NAME (PLEASE PRINT) Andrew Busch TITLE V.P. of Operations
SIGNATURE Andrew Busch DATE 1/6/2005

(This space for State use only)

(5/2000) (See Instructions on Reverse Side)

AREA CODE 303
PHONE 220-7772

FAX
220-7773

National Fuel Corporation

7979 EAST TUFTS AVENUE PARKWAY, SUITE 815
DENVER, COLORADO 80237-2843

013

Friday, January 28, 2005

To: Mr. Dustin K. Doucet
Utah Division of Oil, Gas and Mining

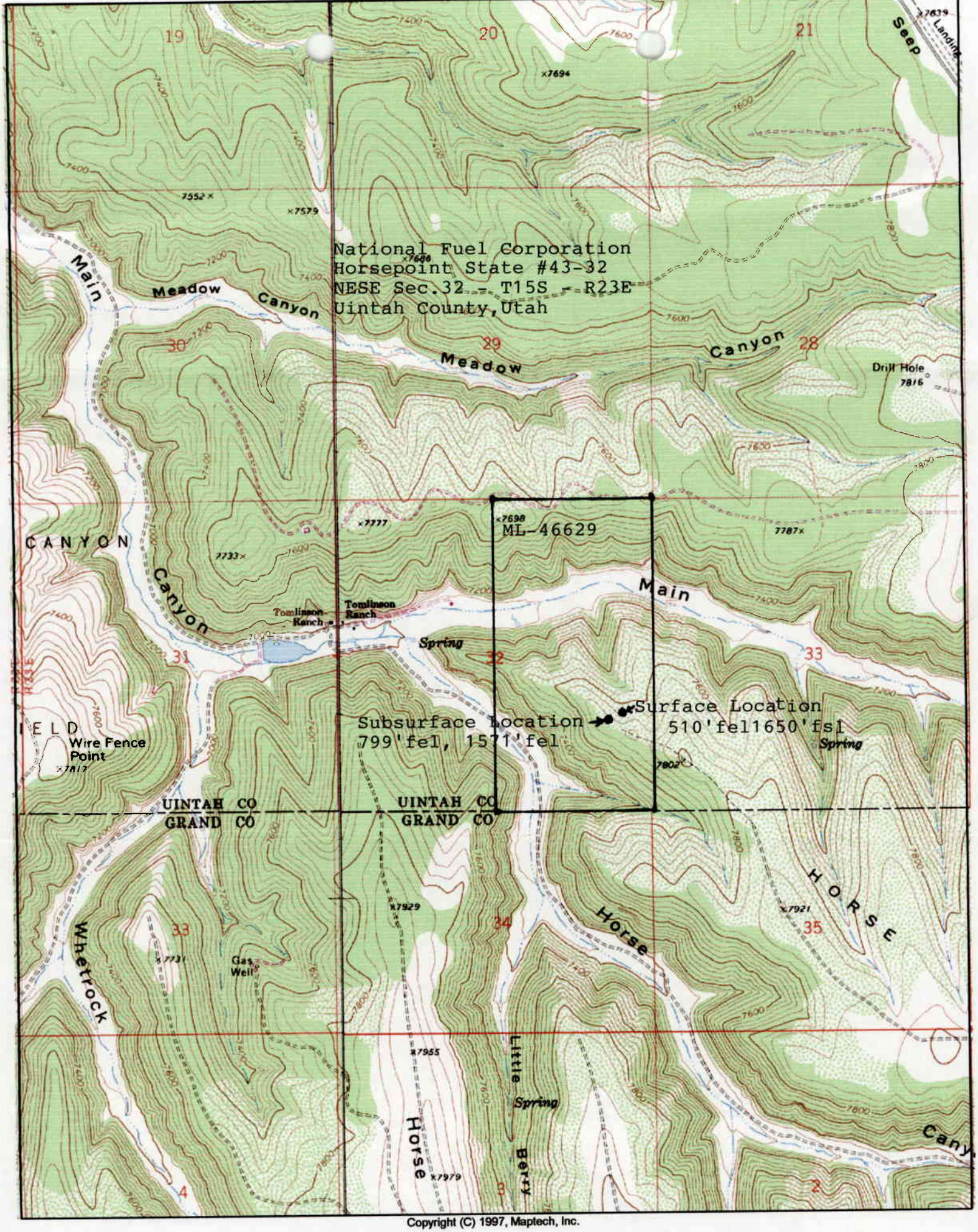
Re: Horse Point State #43-32 Lease Boundary

Dear Mr. Doucet

Attached to this letter is a map showing the boundary for Mineral Lease #46629. The surface and subsurface locations are also shown for the Horse Point State #43-32. Please let me know if you need more detailed information.

Sincerely,

Andrew Busch
V. P. of Operations
(970)858-7490
(970)260-8128



AREA CODE 303
PHONE 220-7772

FAX
220-7773

012

National Fuel Corporation
7979 EAST TUFTS AVENUE PARKWAY, SUITE 815
DENVER, COLORADO 80237-2843

2/28/05

To: Mr. Dustin K. Doucet
Utah Division of Oil, Gas and Mining

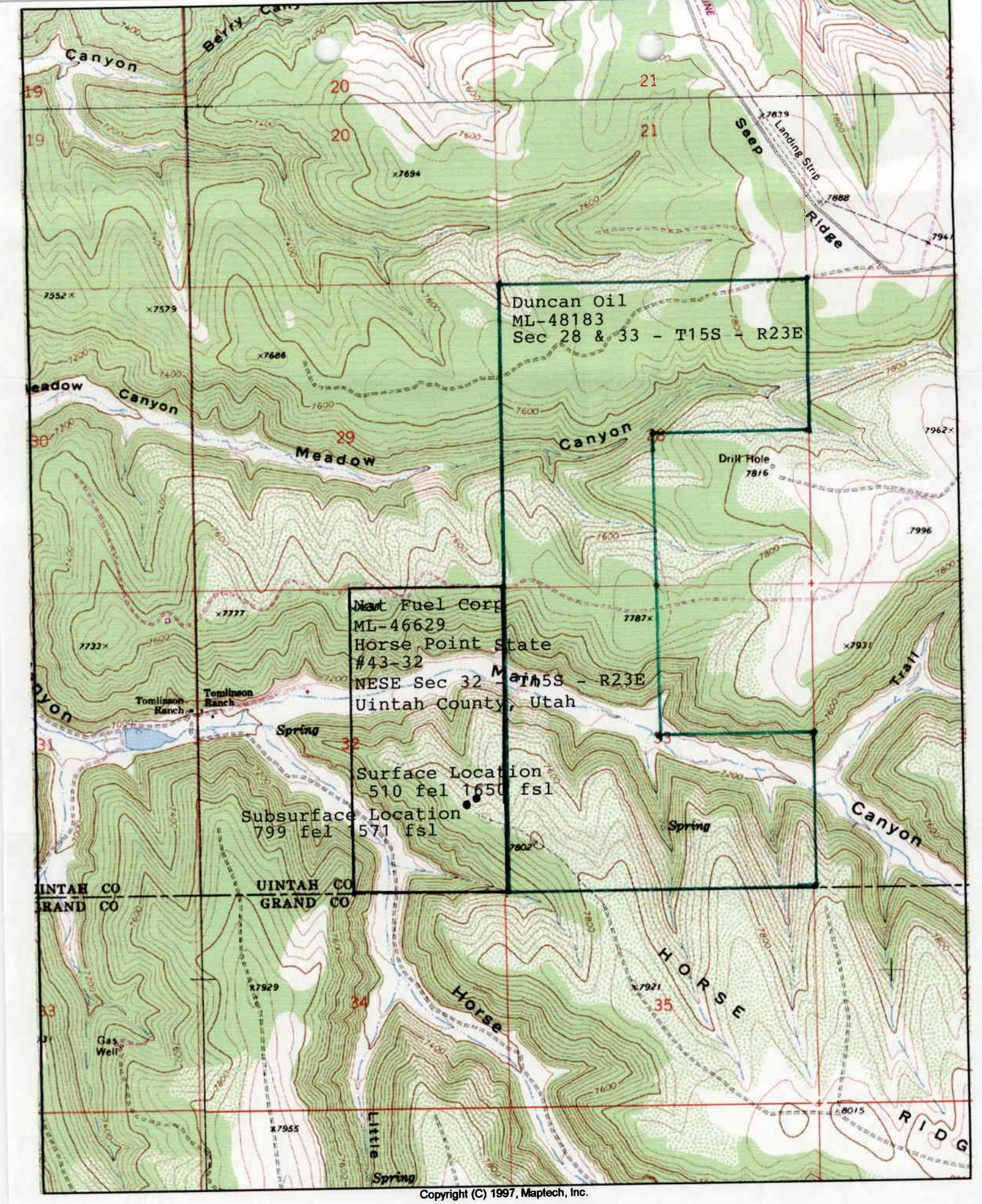
Re: Horse Point State #43-32 Lease Boundary and Duncan Lease Boundary

Dear Mr. Doucet

Attached to this letter is a map showing the boundary for Mineral Lease #46629 and the adjoining Duncan Oil lease boundary to the east.(ML-48183) In addition you will also be receiving a separate letter that will verify that Duncan has been notified of the directional drilling of the #43-32. The surface and subsurface locations are also shown for the Horse Point State #43-32. Please let me know if you need more detailed information.

Sincerely,

Andrew Busch
V. P. of Operations
(970)858-7490
(970)260-8128



014

DUNCAN OIL, INC.

PENTHOUSE ONE

1777 SOUTH HARRISON STREET

DENVER, COLORADO 80210

TELEPHONE (303) 759-3303

March 7, 2005

Utah Division of Oil, Gas & Mining
P.O. Box 145801
Salt Lake City, UT 84114-5801
Attn: Dustin K. Doucet

Re: ***Duncan Lease ML-48183***
National Fuel Corp. State #43-32 (NE SE Sec. 32-T15S-R23E)
Uintah County, Utah

Dear Mr. Doucet:

This letter is being written at the request of National Fuel Corporation, to affirm to DOGM that Duncan Oil, Inc. is aware that the borehole of the captioned well, with a surface location 1,650' FSL and 510' FEL Section 32, approached the western boundary of our Lease by a nearest distance of 141.27'east of the surface location at a measured depth of 4,072.52'. Our information is based a Computalog (dated 7/27/2004) that was provided to Duncan by National Fuel. Duncan Oil has no objection to the location of the borehole as shown on the Computalog.

Duncan Oil, Inc. understands that the borehole is located 289.56' west of the surface location at a measured depth of 8,425'.

Please feel free to contact the undersigned if there are any questions.

Yours truly,
DUNCAN OIL, INC.

John V. Cestia, Vice President Exploration

cc: National Fuel Corporation

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5. LEASE DESIGNATION AND SERIAL NUMBER: ML-46629

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: Horse Point State #43-32

2. NAME OF OPERATOR: National Fuel Corporation

9. API NUMBER: 4304735685

3. ADDRESS OF OPERATOR: 7979 E.Tufts Ave.#815 CITY Denver STATE Co ZIP 80237

PHONE NUMBER: (303) 220-7772

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 510' FEL 1650' FSL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 15S 23E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 11/15/2005	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☑ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This sundry notice is being submitted to request approval for the following plug and abandonment procedure for the Horse Point State #43-32. Well is currently inactive. Tests have shown this well not to be profitable if hooked up for production. (1) Move in workover rig. (2) Blow down well and install BOP. (3) Pump 45 bbls of water down tubing. (4) Lower tubing to 8400'. Bottom perf at 8300'. (5) Balance 40sk plug across perfs at 8178' to 8300'. (6) Pull 30 stands of tubing. (7) Run tubing in and tag cement. (8) Fill hole with water.(9) Pull and lay down 2 3/8" tubing string. (10) Perforate 4 1/2" casing at 50' below surface. (11) Establish circulation through 4 1/2" and 9 5/8" surface casing. (12) Circulate 55sk cement plug. (13) Cut off wellhead. (14) Top off cement if needed. (15) Erect surface marker per state requirements.

COPY SENT TO OPERATOR
Date: 11-18-05
Initials: CHD

NAME (PLEASE PRINT) Andrew Busch TITLE V.P. of Operations

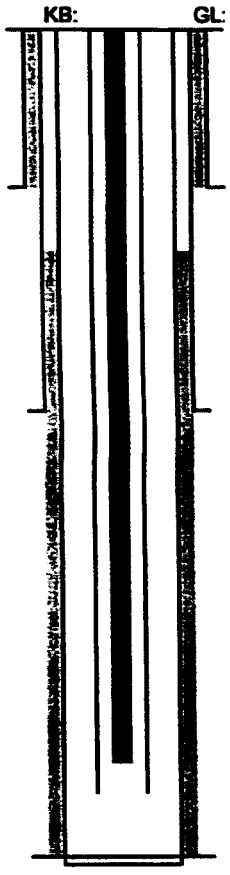
SIGNATURE Andrew Busch DATE 11/5/2005

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 11/15/05 (See Instructions on Reverse Side)
BY: Dustin Doucet
* See Conditions of Approval (Attached)

RECEIVED
NOV 14 2005
DIV. OF OIL, GAS & MINING

(5/2000)



48# 13 3/8 Surface to 180' Cement to Surface

36# 9 5/8 Surface to 1630' Cement to Surface

4.7# 2 3/8 Tubing to 8266' Cement to 950'

Perfs 8178' to 8213' w/ 2 spf
Perfs 8265' to 8300' w/ 2 spf

11.6# 4 1/2 Surface to 8425'

Lease	Well No.	Location:	County:	State:
ML-46629	43-32	NESE, Sec.32 – 15S – 23E	Uintah	Utah

Field:Horse Point	Spud Date:7/6/04	Compl:8/12/04	TD:8385	PBTD:8345

	Size	Depth Set	Grade
Casing	4 1/2	8425	N-80 11.60#
Tubing	2 3/8	8266	N-80 4.70#
Rods			
Unit			
Pump			
Date	Remarks		

j:\NFC\well.doc

State of Utah

Department of Natural Resources

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

CONDITIONS OF APPROVAL TO PLUG AND ABANDON WELL

Well Name and Number: Horse Point St 43-32
API Number: 43-047-35685
Operator: National Fuel Corporation
Reference Document: Original Sundry Notice dated November 5, 2005, received by DOGM on November 14, 2005

Approval Conditions:

1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.
2. ADD PLUG: A minimum 100' (8 sx) plug shall be placed across the base of moderately saline groundwater from ±3200' to 3100'. (R649-3-24-3.2)
3. ADD PLUG: A minimum 100' (8 sx) plug shall be placed across the surface casing shoe from ±1700' to 1600'. (R649-3-24-3.5)
4. All balanced plugs shall be tagged to ensure that they are at the depths specified.
5. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.
6. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.
7. If there are any changes to the plugging procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 prior to continuing with the procedure.
8. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.

Dustin K. Doucet
Petroleum Engineer

November 15, 2005
Date

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

11/15/2005

Wellbore Diagram

r263

API Well No: 43-047-35685-00-00 **Permit No:** **Well Name/No:** HORSE POINT ST 43-32

Company Name: NATIONAL FUEL CORPORATION

Location: Sec: 32 T: 15S R: 23E Spot: NESE

Coordinates: X: 641248 Y: 4369668

Field Name: UNDESIGNATED

County Name: UINTAH

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacity (f/cf)
HOL1	1630	12.25			
SURF	1630	9.625	36	1630	
HOL2	8425	8.75			
PROD	8425	4.5	11.6	8425	11.459 f/cf
T1	8266	2.375			

Surface Plug

Inside 50'/(1.15)(11.459) = 4 sx } 18 sx total

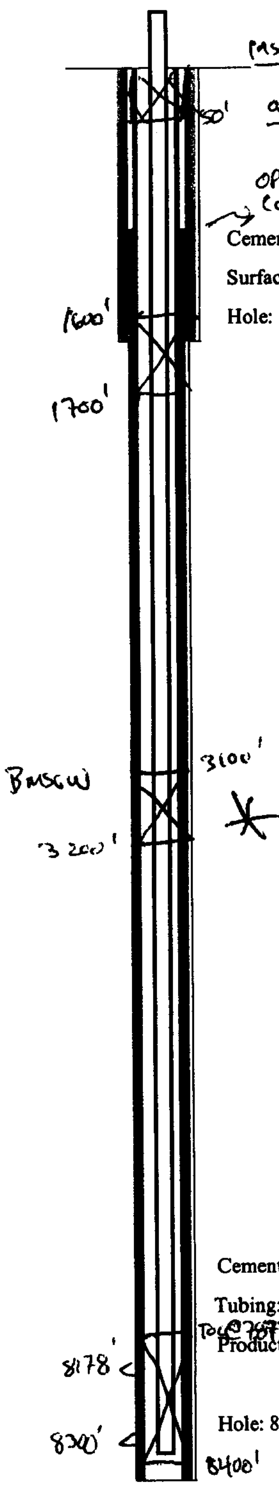
outside 50'/(1.15)(3.090) = 14 sx

4½ x 9⅝" = (8.921² − 4.5²)/183.35 = 0.3236 → 3.090 f/cf

Assumes 128 washout

8¾" x 4½" = [(1.2)(8.75)]² − 4.5² / 183.35 = 0.4909 → 2.037 f/cf = 11.438 f/bbl

operators calc TOC 950' OK?



Cement from 1630 ft. to surface

Surface: 9.625 in. @ 1630 ft.

Hole: 12.25 in. @ 1630 ft.

* Add Plug (Surface Shoe)

Fr 1700' to 1600'

Approx 8 sx.

Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks	calc TOC
PROD	8425	950	G	1900	2123' w/ 20% wo
SURF	1630	0	UK	655	

Calc TOC = (551)(11.438) = 6302' → 8425 − 6302 = 2123'

BMSGW ± 3100'

13.566

Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
8178	8300			

* Add Plug (Protect BMSGW)

Fr 3200' to 3100'

100'/(1.15)(11.459) = 8 sx

Formation Information

Formation	Depth
MVRD	2335
CSLGT	4373
MNCS	4440
MNCSB	5122
DKTA	8080
CDMTN	8261
MORN	8326

Plug 1

(40sx)(1.15)(11.459) = 527'

TOC = 8400 − 527' = 7873'

Cement from 8425 ft. to 950 ft.

Tubing: 2.375 in. @ 8266 ft.

Production: 4.5 in. @ 8425 ft.

Hole: 8.75 in. @ 8425 ft.

TD: 8425 **TVD:** 8385 **PBTD:** 8376

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML46629

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: Horse Point State #43-32

2. NAME OF OPERATOR: National Fuel Corporation

9. API NUMBER: 4304735685

3. ADDRESS OF OPERATOR: 8400 E Prentice #1100 CITY Greenwood Villag STATE Co ZIP 80111

PHONE NUMBER: (303) 220-7772

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 510' FEL 1650' FSL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 15S 23E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☑ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 6/1/2007	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☑ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This sundry notice is being submitted to request approval to recomplete the #42-32 in the Mancos formation. Please review the following procedure. (1) Move in workover rig. (2) Blow down well and install BOP. (3) Pull tubing. (4) Set retrievable bridge plug(RBP) at 5500'. (5) Perforate Mancos at 5230' to 5270' and at 5286' to 5308' at 2 shots per foot. (6) Acidize both intervals with 7 1/2% HCl acid. (7) Swab back and test for productivity and decide if further stimulation is required. (8) Remove RBP at 5500'. (9) Run in tubing. (10) Lay pipeline and set surface equipment for production.

6-12-07
RM

NAME (PLEASE PRINT) Andrew Busch TITLE V.P. of Operations

SIGNATURE Andrew Busch DATE 5/18/2007

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

6/11/07

BHL@ Mancos perfs = ± 56'FEL, 1650'FSL

RECEIVED
MAY 22 2007
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

* A seperate request for Commingling in accordance with R649-3-22 shall be submitted and approved prior to removing RBP and commingling any production.

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML46629

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: Horse Point State #43-32

2. NAME OF OPERATOR: National Fuel Corporation

9. API NUMBER: 4304735685

3. ADDRESS OF OPERATOR: 8400 E Prentice #1100 CITY Greenwood Villag STATE Co ZIP 80111

PHONE NUMBER: (303) 220-7772

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 510' FEL 1650' FSL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 15S 23E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☑ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 6/1/2008	☐ ALTER CASING	☑ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☑ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☑ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This sundry notice is being submitted to request approval to recomplete the #42-32 in the Mancos formation. Please review the following procedure. (1) Move in workover rig. (2) Blow down well and install BOP. (3) Pull tubing. (4) Set retrievable bridge plug(RBP) at 8200'. (5) Perforate Lower Mancos at 7863' to 8010' at 2 shots per foot. (6) Acidize interval with 7 1/2% HCl acid. (7) Swab back and test for productivity and decide if further stimulation is required. Frac if necessary. (8) Set drillable composite plug at 7350'. (9) Perforate Middle Mancos at 7194' to 7231' at 2 shots per foot. (10) Acidize interval with 7 1/2% HCl acid. (11) Swab back and test for productivity and decide if further stimulation is required. Frac if necessary. (12) Set drillable composite plug at 5350'. (13) Perforate Prairie Canyon at 5149' to 5227' at 2 shots per foot.. (14) Acidize interval with 7 1/2% HCl acid. (15) Swab back and test for productivity and decide if further stimulation is required. Frac if necessary. (16) drill out composite plugs. (17) Remove RBP at 8200'. (18) Run in tubing and land. (19) Remove BOP. (20) Lay pipeline and set surface equipment for production. (21) Put well on line. Attached for your review is a more detailed perforating plan.

COPY SENT TO OPERATOR
Date: 5·27·2008
Initials: KS

NAME (PLEASE PRINT) Andrew Busch TITLE V.P. of Operations

SIGNATURE Andrew Busch DATE 4/21/2008

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 5/23/08 (See Instructions on Reverse Side)
BY:

+A seperate request for Commingling in accordance with R649-3-22 shall be submitted and approved prior to removing RBP @ 8200' and commingling Dakota w/ Mancos.

(5/2000)

RECEIVED
APR 24 2008
DIV. OF OIL, GAS & MINING

National Fuel Corporation State #43-32

Proposed Mancos Perforations
24-Mar-08

Interval

Lower Mancos
7863-67
7883-84
7906-08
7928-30
7954-56
7978-80
8009-10

Middle Mancos
7194-98
7204-08
7216-18
7229-31

Prairie Canyon
5149-51
5178-80
5206-08
5243-46
5264-66
5284-87
5225-27

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

August 26, 2008

CERTIFIED MAIL NO.: 7004 2510 0004 1824 6022

Mr. Andrew Busch
National Fuel Corporation
8400 E Prentice #1100
Greenwood Village, CO 80111

Re: Horse Point ST 43-32 API 43-047-35685 15S 23E 32
Extended Shut-in and Temporarily Abandoned Well Requirements for Wells on Fee or State Leases

Dear Mr. Busch,

As of July 2008, National Fuel Corporation has one (1) State Lease Well (Attachment A) that is in non-compliance with the requirements for extended shut-in or temporarily abandoned (SI/TA) status. Wells SI/TA beyond twelve (12) consecutive months require filing of a Sundry Notice in accordance with R649-3-36-1 for Utah Division of Oil, Gas & Mining ("Division") approval. Wells with five (5) years non-activity or non-productivity shall be plugged, unless the Division grants approval for extended shut-in time upon showing of good cause by the operator (R649-3-36-1.3.3).

For extended SI/TA consideration the operator shall provide the Division with the following:

1. Reasons for SI/TA of the well (R649-3-36-1.1).

2. The length of time the well is expected to be SI/TA (R649-3-36-1.2), and

3. An explanation and supporting data if necessary, for showing the well has integrity, meaning that the casing, cement, equipment condition, static fluid level, pressure, existence or absence of Underground Sources of Drinking Water and other factors do not make the well a risk to public health and safety or the environment (R649-3-36-1.3).

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR OIL, GAS & MINING

Submitting the information suggested below may help show well integrity and may help qualify your well for extended SI/TA. **Note: As of July 1, 2003, wells in violation of the SI/TA rule R649-3-36 may be subject to full cost bonding (R649-3-1-4.2, 4.3).**

1. Wellbore diagram, and

2. Copy of recent casing pressure test, and

3. Current pressures on the wellbore (tubing pressure, casing pressure, and casing/casing annuli pressure) showing wellbore has integrity, and

4. Fluid level in the wellbore, and

5. An explanation of how the submitted information proves integrity.

If the required information is not received within 30 days of the date of this notice, further actions may be initiated. If you have any questions concerning this matter, please contact me at (801) 538-5281.

Sincerely,

Dustin K. Doucet
Petroleum Engineer

js
Enclosure

cc: Jim Davis, SITLA
Operator Compliance File
Well File

ATTACHMENT A

	Well Name	Location	API	Lease Type	Years Inactive
1	Horse Point ST 43-32	NESE Sec 32-15S-23E	43-047-35685	State	3 Years 10 Months

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML46629

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

7. UNIT or CA AGREEMENT NAME: NA

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: Horse Point State #43-32

2. NAME OF OPERATOR: National Fuel Corporation

9. API NUMBER: 4304735685

3. ADDRESS OF OPERATOR: 8400 E Prentice #1100 CITY Greenwood Villag STATE Co ZIP 80111

PHONE NUMBER: (303) 220-7772

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 510' FEL 1650' FSL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 15S 23E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 5/15/2009	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☑ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This Sundry Notice is being submitted in response to the letter National Fuel Corporation(NFC) received on August 29th, 2008, requiring that NFC show that the #43-32 is still mechanically sound and state future plans for plugging or producing. NFC is currently analyzing data recently acquired from testing the Mancos formation in the Lindisfarne #1-26. NFC also plans to add Mancos perforations in the #1-26 in the near future. NFC will use information gathered from the #1-26 to help design a successful Mancos completion in the #43-32. Because of the time needed to analyze data and finish Mancos testing in the #1-26, NFC is asking for an extension of the shut in period. With winter fast approaching, NFC would like to finish Mancos testing and perforating on the #1-26 and then start the Mancos recompletion on the #43-32 as soon as weather and road conditions permit in the spring of 2009.
Wellhead pressures gathered on a recent visit indicate that the well bore is still mechanically sound. 09/22/08 - Casing 1350#, Tubing 1350#. These pressures are very close to initial pressures and indicate that there has been no fluid entry into the wellbore. Surface casing 0#, indicating no communication between production string and surface casing.
Please contact me if you require more information proving wellbore integrity. (970)858-7490, (970)260-8128

COPY SENT TO OPERATOR
Date: 2.29.2008
Initials: KS

NAME (PLEASE PRINT) Andrew Busch TITLE VP of Operations

SIGNATURE Andrew Busch (By DT) DATE 9/23/2008

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 9/23/08
BY: (See Instructions on Reverse Side)

RECEIVED
SEP 23 2008
DIV. OF OIL, GAS & MINING

(5/2000)

* Continued monitoring shall be conducted on a quarterly basis and reported to the Division
Extension Valid to 6/1/2009

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML46629

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: NA

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: Horse Point State #43-32

2. NAME OF OPERATOR: National Fuel Corporation

9. API NUMBER: 4304735685

3. ADDRESS OF OPERATOR: 8400 E Prentice #1100 CITY Greenwood Villag STATE Co ZIP 80111

PHONE NUMBER: (303) 220-7772

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 510' FEL 1650' FSL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 15S 23E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 7/28/2009	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Extend Shut In
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This Sundry Notice is being submitted to request an extended shut in period for the Horse Point #43-32 National Fuel Corporation(NFC) still intends to recomplete this well in the Mancos formation when gas prices are more favorable. Current market conditions would not allow NFC to recover the cost of a recompletion or the month to month overhead costs associated with daily operations. NFC respectfully requests an extension of 1 year(7/28/2010) to allow market conditions to improve. Recent testing at the wellsite performed by Teftellar Incorporated indicate the wellbore is mechanically sound. Please review the following information.
Surface casing pressure - 0#
4 1/2" casing pressure at surface - 1305#
Tubing pressure at surface - 1303#
Bottom hole pressure at 8350' - 1622#
Fluid level using gradient method - 8299'

COPY SENT TO OPERATOR
Date: 7/13/2010
Initials: KS

NAME (PLEASE PRINT) Andrew Busch TITLE VP of Operations

SIGNATURE Andrew Busch DATE 7/28/2009

(This space for State use only)

REQUEST DENIED
Utah Division of
Oil, Gas and Mining
Date: 7/7/10
By: (See Instructions on Reverse Side)

RECEIVED
JUL 28 2009
DIV. OF OIL, GAS & MINING

(5/2000)

* Well has been SI/TA For 1 year requested. A new request with new information & justification must be Submitted. Concerns with pressure data submitted and how that shows integrity. Concerns with length of time well SI/TA. BHP does not correspond with drilling MW of 9.3 ppg.

Input Data (Provided By Operator)						Output Data							Data Comparative	
Sfc Csg Depth	Sfc Csg Psi	Prod Csg Psi	Tbg Psi	Fluid Level	Depth (Csg, Perf or Plug back)	Water Column Dx		Gas Head Psi	Water Head Psi		Formation Frac @ Sfc Shoe	Reservoir Pressure Total	Calc Press @ Sfc Shoe	Normal Reservoir Psi for Depth
1630	0	1305	1303	8299	8350	51		830	22		1,141	2157	1,468	3,616
Packer	No													
Fluid Gradient psi/ft	0.433													
Gas Gradient psi/ft	0.1													
Frac Gradient psi/ft	0.7													

	SCENARIOS	Indicates Integrity?
#1	SFC CSG = 0 PSI MEANS NO COMMUNICATION, REASSURING INTEGRITY	Yes
#2	If measured reservoir psi is equal to normal gradient reservoir pressure, well has integrity. Otherwise, pressure would be less; therefore leaching into formation.	No
#3	If it is a producing well and reservoir pressure is less than calculated normally pressured reservoir; an evauluation of frac gradiant at the sfc shoe is necessary. If calculated pressure is less than frac pressure at the shoe, than fluid is probably not moving into the formation.	No
#4	If packer is in the hole, with psi on tbg and no psi on prod csg, this indicates tbg and packer integrity.	NA

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML46629

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

7. UNIT or CA AGREEMENT NAME: NA

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: Horse Point State #43-32

2. NAME OF OPERATOR: National Fuel Corporation

9. API NUMBER: 4304735685

3. ADDRESS OF OPERATOR: 8400 E Prentice #1100 CITY Greenwood Villag STATE Co ZIP 80111

PHONE NUMBER: (303) 220-7772

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 510' FEL 1650' FSL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 15S 23E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 8/12/2010	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Extend Shut In
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This Sundry Notice is being submitted to request an extended shut in period for the Horse Point #43-32. National Fuel Corporation(NFC) is currently awaiting test results from an offset well that is being recompleted in the Mancos formation this fall. Open hole logs indicate Mancos potential in the #43-32. This potential is based on other wells in the area that are producing from this formation that have similar log characteristics. NFC respectfully requests an extension of the shut in period for 1 year(8/12/2010) in order to evaluate the success of the Mancos test in the offset well.

Recent testing at the wellsite performed by Teftellar Incorporated compared to tests performed upon initial completion indicate the wellbore is mechanically sound. Attached pressure tests that were conducted upon initial completion in 2004, show very minimal change in pressures compared to the most recent build up survey. In fact, pressures have increased slightly which indicate a sound wellbore. Surface casing pressure still remains at 0# PSI.

COPY SENT TO OPERATOR
Date: 10.7.2010
Initials: KS

NAME (PLEASE PRINT) Andrew Busch TITLE VP of Operations

SIGNATURE Andrew Busch DATE 8/12/2010

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 10/5/2010
BY:
* Extension valid thru 8/11/2011.

RECEIVED
AUG 24 2010
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

Company: NATIONAL FUEL CORP
Well: HORSE POINT STATE # 43-32 (ML-4
Field: HORSE POINT
Engineer: TOBY TEFTELLER
Gauge Type: ELECTRONIC
Gauge Range: 0-5000
Gauge Depth: 8150 ft
Serial No.: 268

County: UINTAH
State: UTAH
Date: 08/21/2004
Well Type:
Test Type: GRADIENT
Status: SHUT IN
File Name: 55364

Tubing: 2-3/8" TO 8215'
Tubing: TO
Casing: 4-1/2" TO 8425'
Perfs.: 8265'-8300'
Elevation: 7656'KB
Shut-in Time 48 hrs

Packer Depth 8220 ft
PBTD 8376 ft
Oil Level
H2O Level 6841 ft
Zero:

Shut-in BHP 1497 @ 8150 ft
Shut-in WHP 799

Shut-in BHT 199 F @ 8150 ft
Shut-in WHT 0 F

[Tefteller Incorporated]

#	MD	TVD	PRESSURE	PSI/ft
1	0	0	799.00	
2	2000	2000	840.00	0.021
3	4000	4000	879.00	0.020
4	6000	6000	918.00	0.020
5	7500	7500	1218.00	0.200
6	8150	8150	1497.00	0.429

Lower Dakota

Company: NATIONAL FUEL CORP.
Well: HORSE POINT STATE # 43-32
Field: HORSE POINT
Engineer: TOBY TEFTELLER
Gauge Type: ELECTRONIC
Gauge Range: 0-5000
Gauge Depth: 8100 ft
Serial No.: 264

County: UINTAH
State: UTAH
Date: 09/03/2004
Well Type:
Test Type: GRADIENT
Status: SHUT IN
File Name: TT4332

Tubing: 2-3/8" TO 8124'
Tubing: TO
Casing: 4-1/2" TO 8425'
Perfs.: 8178'-8213'
Elevation: 7641'GL---7656'KB
Shut-in Time 46 hrs

Packer Depth 8125 ft
PBTD 8250 ft
Oil Level
H2O Level 7554 ft
Zero:

Shut-in BHP 1580 @ 8100 ft
Shut-in WHP 1105

Shut-in BHT 199 F @ 8100 ft
Shut-in WHT 0 F

[Tefteller Incorporated]

#	MD	TVD	PRESSURE	PSI/ft
1	0	0	1105.00	
2	2000	2000	1175.00	0.035
3	4000	4000	1239.00	0.032
4	6000	6000	1299.00	0.030
5	7500	7500	1341.00	0.028
6	8100	8100	1580.00	0.398

TAGGED SEATING NIPPLE @ 8119'MW WITH 1.870'
GAUGE RING ON 09/01/2004. (MW 0'=11'ABOVE GL)

Upper Dakota

10891

Company: NATIONAL FUEL CORPORATION
Well: HORSEPOINT STATE NO. 43-32
Field: HORSEPOINT
County: UINTAH
State: UTAH
Engineer: TOBY TEFTELLER
Date: 08/02/2010
Initial Time: 0: 0: 0
Gauge Type: AMERADA
Serial #: 52206
Gauge Range: 0 - 4000

Tubing: TO
Tubing: 2-3/8" TO
Casing: 4-1/2" TO 8425'
Perfs.: 8178' - 8213'
Perfs.: 8265' - 8300'
Shut-in BHP, 1622.00 @ Depth, 8350
Shut-in BHT, 204.0 @ Depth, 8350
Flowing BHP, 0.00 @ Depth, 0
Flowing BHT, 0.0 @ Depth, 0

Shut-in WHP, 1305.00
Shut-in WHT, 0.0
Flowing WHP, 0.00
Flowing WHT, 0.0
Casing Press, 1307.00

Elevation: 7641' GL / 7656' KB
Zero:
Gauge Depth, 8350
Packer Depth, 0
PBTD, 0
File Name: 10891.WEL
Well Type:
Test Type: GRADIENT
Well Status: SHUT IN

Produced time, 0
Shut-in time, 0
TOTAL DEPTH - 8376'
TAGGED S.N. @ 8238' MW W/1.875 GAUGE RING, TAGGED FILL @ 8356' W/1.735 GAUGE RING - (MW 0'= 6' AGL)

Upper + Lower Dakota

Input Data (Provided By Operator)							Output Data							Data Comparative	
Sfc Csg Depth	Sfc Csg Psi	Prod Csg Psi	Tbg Psi	Fluid Level	Depth (Csg, Perf or Plug back)		Water Column Dx		Gas Head Psi	Water Head Psi		Formation Frac @ Sfc Shoe	Reservoir Pressure Total	Calc Press @ Sfc Shoe	Normal Reservoir Psi for Depth
1630	0	1305	1305	8350	8350		0		334	0		1,141	1639	1,370	1,622
															From BHP Gauge-underpressured
Packer	No														
Fluid Gradient psi/ft	0.433														
Gas Gradient psi/ft	0.04														
Frac Gradient psi/ft	0.7														

	SCENARIOS	Indicates Integrity?
#1	SFC CSG = 0 PSI MEANS NO COMMUNICATION, REASSURING INTEGRITY	Yes
#2	If measured reservoir psi is equal to normal gradient reservoir pressure, well probably has integrity. If pressure is less, well could lack integrity explained by pressure bleeding into a shallower formation.	Yes
#3	If it is a producing well and reservoir pressure is less than calculated normally pressured reservoir; an evaluation of frac gradiant at the sfc shoe is necessary. If calculated pressure is less than frac pressure at the shoe, then fluid is probably not moving into the formation.	No
#4	If packer is in the hole, with psi on tbg and no psi on prod csg, this indicates tbg and packer integrity.	NA

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5. LEASE DESIGNATION AND SERIAL NUMBER: ML-46629

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

7. UNIT or CA AGREEMENT NAME: NA

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: Horse Point State #43-32

2. NAME OF OPERATOR: National Fuel Corporation

9. API NUMBER: 4304735685

3. ADDRESS OF OPERATOR: 8400 E. Prentice, #1100 CITY Greenwood Village STATE Co ZIP 80111

PHONE NUMBER: (303) 220-7772

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 510 fel, 1650 fsl

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 15S 23E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 5/1/2011	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☑ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This sundry notice is being submitted for notification of National Fuel Corporation's (NFC) plans to begin recompletion operations on the Horse Point State #43-32. The following procedure is being submitted for review and approval.
1) Move in rig. 2) Blow down well and installl BOP's. 3) Pull and lay down tubing. 4)Set retrievable bridge plug via wireline at 8150' and cover with sand. 5) Fill hole with 3% KCl water. 6) Rig up Schlumberger and log Mancos formation from 8150' to 5000' with Schlumberger RST log. 7) Rig down Schlumberger and workover rig. 8) Analyze logs.

Logging information will be analyzed prior to further completion operations. NFC expects the analyzing of data will take approximately 4 weeks. After information has been analyzed, a sundry notice will be submitted detailing perforating and stimulation plans.

COPY SENT TO OPERATOR
Date: 5.4.2011
Initials: KS

NAME (PLEASE PRINT) Andrew Busch TITLE V.P. of Operations

SIGNATURE Andrew Busch DATE 4/18/2011

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 5/3/11
BY: (See Instructions on Reverse Side)

RECEIVED
APR 25 2011
DIV. OF OIL, GAS & MINING

(5/2000)

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-46629

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

7. UNIT or CA AGREEMENT NAME: NA

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: Horse Point State #43-32

2. NAME OF OPERATOR: National Fuel Corporation

9. API NUMBER: 4304735685

3. ADDRESS OF OPERATOR: 8400 E. Prentice, #1100 CITY Greenwood Village STATE Co ZIP 80111

PHONE NUMBER: (303) 220-7772

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 510 fel, 1650 fsl

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 15S 23E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 8/15/2011	☐ ALTER CASING	☑ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☑ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☑ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This sundry notice is being submitted for notification of National Fuel Corporation's (NFC) plans to begin recompletion operations on the Horse Point State #43-32. The following procedure is being submitted for review and approval. 1) Move in rig. 2) Blow down well and installl BOP's. 3) Run in well with tbg, release and remove ret bridge plug at 8145'. 4) Set drillable bridge plug at 8250'. 5) Remove BOP and install frac tree. 6) Frac upper Dakota through casing at 8178' to 8213'. 7) Set drillable bridge plug at 5420'. 8) Perforate Mancos formation at the folowing depths: 5318' - 5320', 5299' - 5302', 5283' - 5290', 5276' - 5280', 5262' - 5268', 5247' - 5253', 5239' - 5242', 5233' - 5236', 5224' - 5226'. 9) Frac Mancos interval. 10) Flow and test Mancos. 11) Drill out plugs. 12) Flow and test combined production from Dakota and Mancos.

If flow tests reveal profitable quantities of hydrocarbon's, equipment and pipelines will be installed for production.

COPY SENT TO OPERATOR
Date: AUG 11 2011
Initials: KS

NAME (PLEASE PRINT) Andrew Busch TITLE V.P. of Operations

SIGNATURE Andrew Busch DATE 7/27/2011

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 8/9/2011
BY:

BHL @ Mancos perfs ± 510' FEL 1650' FSL

RECEIVED
AUG 02 2011
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

* A seperate request for commingling shall be submitted and approved in accordance with R649-3-22 prior to drilling out plugs (steps 11 and 12).

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-46629
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA
7. UNIT or CA AGREEMENT NAME: NA
1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER
8. WELL NAME and NUMBER: Horse Point State #43-32
2. NAME OF OPERATOR: National Fuel Corporation
9. API NUMBER: 4304735685
3. ADDRESS OF OPERATOR: 8400 E Prentice, Suite 1100 CITY Greenwood Village STATE Co ZIP 80111
PHONE NUMBER: (303) 220-7772
10. FIELD AND POOL, OR WILDCAT: Wildcat
4. LOCATION OF WELL
FOOTAGES AT SURFACE: 510 fel, 1650 fsl
COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 15S 23E
STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 8/31/2011	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☑ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This sundry notice is being submitted for notification of National Fuel Corporation's(NFC) intentions to commingle production from the Dakota and Mancos formations in the Horse Point State #43-32. The Dakota formation has been perforated and stimulated with acid, and is currently capable of production. NFC plans to frac the Dakota formation at 8178' to 8213', then perforate and frac the Mancos at 5224' to 5320' in a 2 stage process. During the fracing process, a flow through plug will be set between the Dakota and Mancos to allow simultaneous flow back after fracing. After flow back, allocation of production will be determined through isolation testing in the wellbore.

Accompanying this sundry is an exhibit showing operators of leases contiguous to ML-46629. NFC hearby affirms that we have provided a copy of this application to the operators on the contiguous leases.

COPY SENT TO OPERATOR
Date: OCT 17 2011
Initials: KS

NAME (PLEASE PRINT) Andrew Busch TITLE V.P. of Operations

SIGNATURE Andrew Busch DATE 8/25/2011

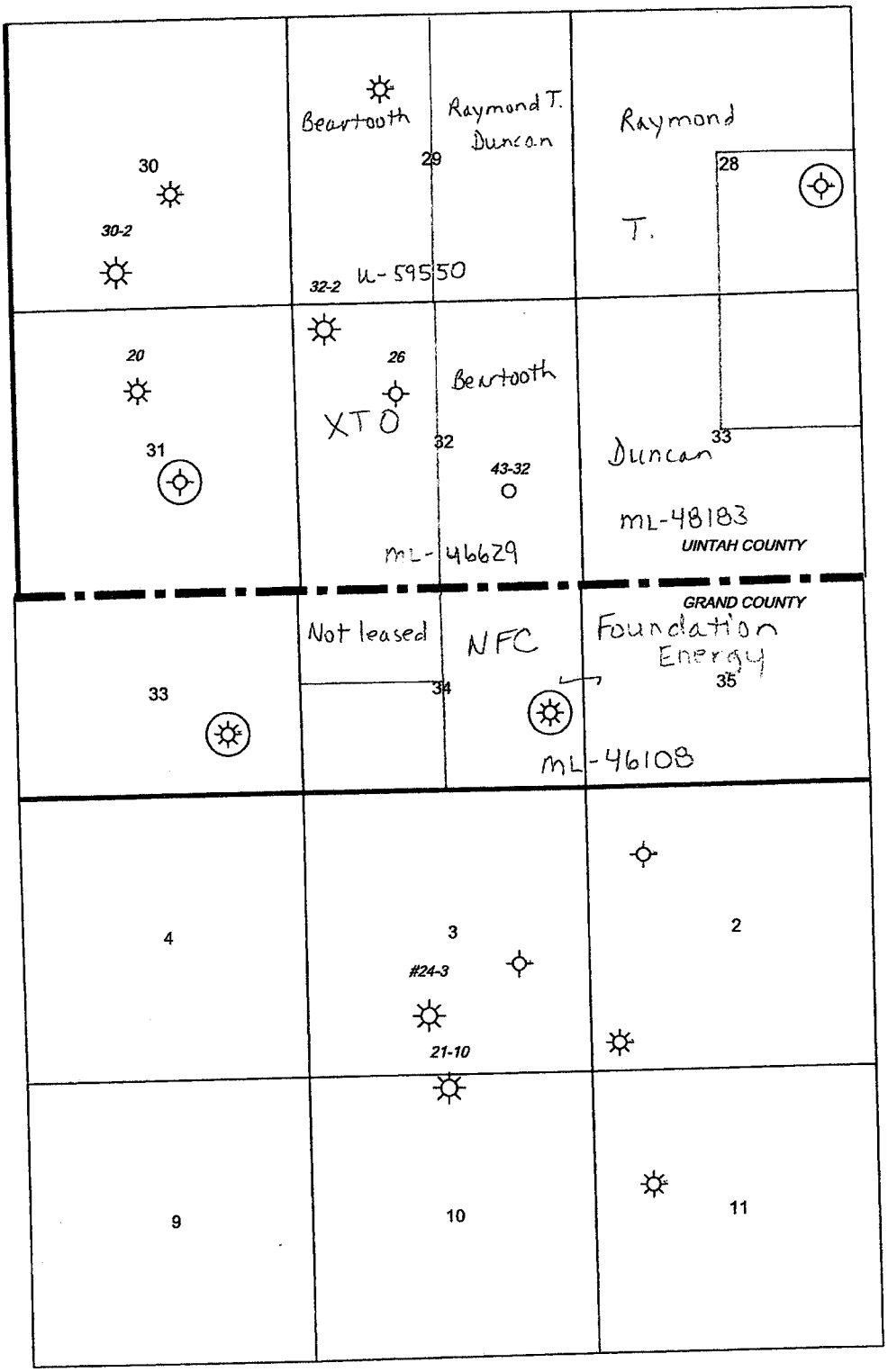
(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 10/14/2011
BY:

RECEIVED
SEP 01 2011
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

R 23 E



NATIONAL FUEL CORPORATION

UINTA BASIN

GRAND AND UINTAH COUNTIES, UTAH

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-46629

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

7. UNIT or CA AGREEMENT NAME: NA

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: Horse Point State #43-32

2. NAME OF OPERATOR: National Fuel Corporation

9. API NUMBER: 4304735685

3. ADDRESS OF OPERATOR: 8400 E. Prentice, #1100 CITY Greenwood Village STATE Co ZIP 80111

PHONE NUMBER: (303) 220-7772

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 510 fel, 1650 fsl

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 15S 23E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☑ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
Date of work completion: 11/23/2011	☑ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☑ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This sundry notice is being submitted for notification of National Fuel Corporation's (NFC)completion of recompletion operations on the Horse Point State #43-32. NFC has successfully recompleted the Horse Point State #43-32 in the Mancos and Dakota formations, and is beginning installation of pipeline and production equipment. See attached report for details of completion operations and flow testing. NFC currently anticipates an initial production date of 01/01/2112.

NAME (PLEASE PRINT) Andrew Busch TITLE V.P. of Operations

SIGNATURE Andrew Busch DATE 12/16/2011

(This space for State use only)

RECEIVED
DEC 19 2011
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

National Fuel Corporation
Horse Point State #43-32
NESE, Sec.32 – 15S – 23E
Uintah County, Utah

Mancos Recompletion

5/30/11 – Csg - 1375#. Tbg – 1375#. MIRU WP Inc rig. MI flow back tank. Run line to flowback tank and started blowing well down through tbg.

5/31/11 – Csg – 180#. Tbg – Steady dry blow. Well unloaded 3 bbls of oil overnight. Blew down csg. ND wellhead. Hanger lock downs seized in head. Took 2 hours to get lock downs backed out. NU BOP. Tbg hanger stuck in head. Finally worked free. Pulled 25K over string weight to free. POOH and laid down 155 jts of 2 3/8" tbg. SDFD 5:00PM. Left well open to flowback tank through csg. Shut in tbg.

6/1/11 – Csg – Steady dry blow. Blew down tbg. POOH and laid down remaining tbg. 263 jts total. SDFD 11:30AM.

6/2/11 – Csg - Light dry blow. MIRU Schlumberger wireline. PU & RIH with 4 ½" RBP. Correlated depth with DV tool at 6022'. Set plug at 8145'. POOH with setting tool. Loaded hole with 50 bbls of 3% KCl water. PU & RIH with Reservoir Saturation Tool. Logged from 8123' to 5000' in 2 passes. SDFD 7:00PM.

8/18/11 - MI WP Inc rig.

8/22/11 - RU WP Inc rig. ND wellhead. Replaced seized lock downs with new lock downs. NU BOP. PU and RIH with RBP retrieving head, SN and 240jts of tbg. SDFD 5:00PM.

8/23/11 – PU and RIH with 20 jts. Released RBP. POOH and laid down 260 jts of tbg and RBP. Dalbo delivered 5, 500 bbl frac tanks to location. SDFD 4:00PM.

8/24/11 – RU DLD Wireline. RIH with composite bridge plug and set between upper and lower Dakota at 8240'. RD wireline. ND BOP. NU Knight frac tree. Dalbo delivered 5 more 500 bbl frac tanks and a flowback tank. H-Twenty began filling frac tanks from Delambert's pond. Waiting on frac.

10/9/11 – Action Hot Oil service heated frac tanks to 100 degrees. L&L Roustabouts pulled heaters up muddy hill from location.

10/12/11 – Action Hot Oil reheated tanks.

10/13/11 – MIRU Cal Frac.

10/14/11 – Cal Frac finished rigging up for Dakota frac. Held safety meeting. Pressure tested lines to 6500#. Established 35 bpm rate during pad. Pumped 150,095# of white 20/40 and tailed in with 15,725# of Super LC resin coated sand. Sand stages traced with 2 isotopes provided by Pro Technics. 1 thru 3 lb stages traced with Iridium. 4 and 5 lb stages traced with Scandium. Total sand in formation = 165,820#. Total fluid pumped 2087 bbls. Average treating rate 35.4 bpm. Average treating pressure 3401#. Max treating pressure 4363#.

ISIP – 2977#
5 min – 2638#
10 min – 2450#
15 min – 2356#
Frac gradient calculated at 0.80. RD Cal Frac treating line. RU DLD Wireline. RIH with Baker flow through composite bridge plug and set at 6000'. 20' above DV tool in casing. POOH with setting tool. PU & RIH with 1st run perf gun. Perforated 5318' – 20', 5299' – 5302', 5283' – 90' at 2 spf. Casing pressure before 950#. After – 940#. POOH with spent gun. RIH with 2nd run gun. Perforated 5276' – 80', 5262' – 68', 5247' – 53' at 2spf. Casing pressure before 880#. After – 860#. POOH with spent gun. RIH with 3rd run gun. Perforated 5239' – 42', 5233' – 36', 5224' – 26' at 2spf. Casing pressure before 650#. After – 630#. RD wireline. Dropped ball for Baker plug. RU Cal Frac treating line for Mancos frac. Pumped 100 bbl injection test to establish rate and frac gradient. Frac gradient calculated at 0.53. Pressure tested lines to 6500#. Established 35 bpm rate during pad. Pumped 152,645# of white 20/40 and tailed in with 25,035# of Super LC resin coated sand. Sand stages traced with 2 isotopes provided by Pro Technics. 1 . 177,680#. Total fluid pumped 2256 bbls. Average treating rate 36.3 bpm. Average treating pressure 1091#. Max treating pressure 1585#.
ISIP – 505#
5 min – 464#
10 min – 445#
15 min – 446#
RD Cal Frac. Waited 4 hours at Cal Fracs recommendation to begin flow back.

10/15/11 - Casing pressure after 4 hours 120#. Opened to flowback tank through 32/64 choke.
1 hour – Csg 65# - recovered 70 bbls
1.5 – Csg 25# - 95 bbls total
2 – Csg 5# - 123 bbls total.
2.5 – Csg 0# - 129 bbls total.
Well no longer flowing. Left well open to flowback tank. Called Dalbo and released 9 frac tanks. Called WPI and scheduled rig mob to location for Monday the 17th.

10/17/11 – No fluid produced the last 24 hours. WPI rig on location at 3:45 pm. Delayed arrival due to flat tires. Stood up rig. Original tbg string delivered to location. SDFD 5:30 pm.

10/18/11 – ND frac tree. NU BOP. PU & RIH with NC, SN and 163 jts of tbg to 5106'. RU swab. First run, fluid level 1200' from surface. Gel from frac does not appear to be completely broke. Made 12 runs and recovered 34 bbls of fluid. 163 bbls total recovered since frac. Last run fluid level 2400' from surface. Gathered samples of fluid. Left tbg open to flowback tank. SDFD 5:30PM.

10/19/11 – Csg – 0#. Tbg – 0#. No fluid produced overnight. Resumed swabbing. 1st run fluid level 1200' from surface. Made 28 runs and recovered 152 bbls. 315 bbls recovered since frac. Last 4 runs gas cut. Well continued to flow for 3-5 minutes after last 2 runs. Csg pressure starting to build. Shut in tbg. Csg 40#. SDFD 5:00PM

10/20/11 – Csg – 88#. Tbg – 115#. Blew down tbg. RU swab. 1st run fluid level 1800' from surface. Made 27 swab run sand recovered 121 bbls. 436 bbls recovered since frac. Fluid heavily gas cut on last 10 runs. Well flowing 5 – 10 minutes after each run, but not carrying fluid. RD swab. SDFD 5:30PM. Csg – 370#. Tbg – light blow. Shut in tbg.

10/21/11 – Csg – 400#. Tbg – 184#. RU swab. 1st run fluid level 2000' from surface. Made 27 runs and recovered 136 bbls. 572 bbls recovered since frac. After 4 runs, fluid became heavily gas cut. Last 2 runs had longer after flow and starting to carry some fluid. After flow lasting 10-20 minutes. RD swab. Csg – 640#. Tbg light blow. Shut in tbg. SDFD 6:00PM.

10/24/11 – Csg – 663#. Tbg – 182#. Blew down tbg. RU swab. 1st run fluid level 2200' from surface. Made 21 runs and recovered 117 bbls. During first 10 runs, csg increased to 745#. Well began to slug fluid and blow strong after each run, then would taper to a light blow after 30 minutes. Csg pressure dropping after each run. 689 bbls recovered since frac. Csg after last run 632#. RD swab. Shut in tbg. SDFD 5:45PM.

10/25/11 – Csg 654#. Tbg – 207#. Blew down tbg. RU swab. 1st run fluid level 2600' from surface. During 1st and 2nd runs csg increased to 715#, then began to drop as fluid became more gas cut. Made 15 runs total, and recovered 75 bbls. 764 bbls recovered since frac. Well carrying fluid after each run and gas increasing. No signs of condensate or oil. Csg after last run 565#. Tbg blowing to flowback tank and carrying a heavy mist. Left open to flowback. RD Swab. SDFD 5:30PM.

10/26/11 - Csg – 705#. Tbg – light vapor. RU swab. 1st run fluid level 3000' from surface. Made 1 swab run and well continued to flow and carry fluid. RD swab. Released rig crew for the day. Well flowed for 3 hours carrying fluid, then tapered to a light blow. Casing dropped to 562# then started to build slowly. Recovered 40 bbls. 804 bbls recovered since frac.

10/27/11 – Csg – 711#. Tbg – light blow. RU swab. 1st run fluid level 3200' from surface. Made 1 swab run and well continued to flow and carry fluid. Well flowed for 3 1/2 hours carrying fluid, then tapered to a light blow. Made another run. RD swab. Released rig crew for the day. Left tbg open to flowback tank, blowing a heavy mist. Csg – 570#. Recovered 46 bbls. 850 bbls recovered since frac.

10/28/11 – Csg – 715#. Tbg – light blow. RU swab. 1st run fluid level 3300' from surface. Made 1 swab run and well continued to flow and carry fluid. After 3 hours well still flowing and carrying fluid. RD swab. Released crew for the day. Casing 585#. 38 bbls recovered today. Leaving tbg open to flowback tank.

10/30/11 – Csg – 302#. Tbg – steady blow and carrying fluid. Recovered 195 bbls since swab run on 10/28. 1045 bbls total recovered since frac. Leaving tubing open to allow well to continue to clean up.

10/31/11 – Csg – 273#. Tbg – steady blow and carrying fluid. Recovered 39 bbls since yesterday. 1084 bbls recovered since frac. Installed 32/64 choke in flow line. Monitored flow for 1 hour. Stabilized flow rate 253 mcf/d. Blew down casing. Installed stripping rubber. POOH with tbg. PU and RIH with bit sub with 3.750" tricone bit, 3 stands, pump bailer and 78 more stands + 1 jt to 5136'. Shut in tbg. Left casing open to tank. SDFD 4:00PM. Will PU and RIH to plug at 6000' tomorrow.

11/1/11 – Csg – dry steady blow. Tbg – 90#. Blew down tbg. PU and RIH with 23 jts. Tagged sand at 5876'. Bailed through 15' of sand to 5891'. Not a bridge. 124' of fill on plug at 6000'. POOH with bit and bailer. Casing unloading water while tripping. Laid down bailer. Last stand full of frac sand. RIH with bit and bit sub to 5109'. Shut in tbg. Left casing open to tank. Scheduled N2 unit for 11/3 to circulate out sand and drill out plug. Starting to snow lightly. SDFD 4:00PM

11/3/11 – Csg – 400#. Tbg – 650#. Blow line to tank partially froze. Thawed line and blew down csg. Blew down tbg. Tbg and csg started unloading water. Pumped 6 bbls of 3% KCl water down tbg to kill. Let csg blow down to a manageable level. Installed new stripping rubber. RIH with 7 stands to 5487'. Installed Weatherford string check. RU Weatherford foam unit. Attempted to break circulation. Tbg pressure built to 1350#. Noticed bulge and leak in kelley hose. SD foam unit and replaced kelley hose. Started foam unit. Broke circulation with 1375# on tbg. RIH with 5 stand and 1 jt. Broke circulation. Washed down through 30' of sand. RU power swivel. PU and washed down another jt. Let clean up for 30 minutes. POOH with 1 stand. SD foam unit. SDFD 6:00PM. Left casing blowing to flowback tank.

11/4/11 – Csg – blowing and carrying fluid. Tbg – 400#. Recovered 137 bbls overnight. Established circulation with foam unit. Washed down 4 jts through sand to plug at 6000'. Heavy sand in returns. Drilled through BP. Circulated for 30 minutes after drilling through plug. PU and RIH with 30 more jts to 7018'. Installed Weatherford string check on jt #197. Breaking circulation every 5 jts. Taking 20 minutes to circulate bottoms to surface. After running last 5 jts, circulated for 35 minutes to clean well. SD foam unit. POOH with 13 stands and 1 jt. Shut in csg. SDFD 6:00PM.

11/7/11 – Csg – 740#. Tbg – 350#. Blew down csg. Broke circulation with foam unit. RIH with 13 stands. PU RIH with 38 jts, breaking circulation every 10 jts. Circulated down to BP at 8240'. Circulated on bottom for 1 hour. RD foam unit. POOH with 66 jts. Shut in tbg and csg. SDFD 6:30PM.

11/8/11 – Csg – 750#. Casing valves froze. Thawed csg valves then blew down csg. Csg unloading soapy water. Released pressure on string check in tbg string. Removed string check and POOH with 22 stands to next string check. Released pressure on string check. Tbg began unloading soapy water. Thawed valves on rig tank. Pumped 6 bbls of 3% KCl water down tbg. POOH with 44 stands. Tbg began unloading water. Pumped another 6 bbls down tbg. POOH with 25 stands and had to kill tbg with another 6 bbls. With 9 stands left in well, pumped 35 bbls down tbg to kill csg and tbg flow. POOH with remaining tbg and bit. Shut in well. Winterized flow line and rig pump. SDFD 5:00PM.

11/9/11 – Csg – 750#. MIRU DLD Wireline and ProTechnics. Thawed csg valves. PU & RIH with CCL, GR and tracer logging tool. Logged through Mancos and Dakota formations. Tagged fill in Dakota at 8195'. POOH with logging tools. RD DLD and ProTechnics. 2:00PM. Blew down csg for 30 minutes. Started unloading slugs of soapy water. Attempted to kill well with rig pump. Could not pump against well head pressure. Determined that pistons in pump are damaged. Installed 28/64 choke in flow back line.. Csg still carrying fluid and gas. Flowed back 105 bbls today. 1250 bbls recovered since frac. SDFD 4:00PM. Will bring different rig pump to location tomorrow.

11/10/11 – Csg – 100# flowing through choke. Calculated flow rate 428 mcf/d. Moved in working rig pump. Pumped 40 bbls of 3% KCl water down csg. RIH with NC, SN and 190 jts. Tbg started unloading water. Pumped 8 bbls down tbg. RIH with remaining tbg. Csg blowing and unloading fluid to flowback tank. Stripped in hanger through BOP's. Landed tbg at 8125' KB. ND BOP. NU wellhead. Shut in csg and tbg. Winterized flow lines and rig pump. SDFD 4:30PM

Tbg Detail

258 jts J-55, 2 3/8"-	8108 .85'
SN-	1.10'
NC-	.60'
KB -	15.00'
Total	8125.55'

11/11/11 – Csg – 600#. Tbg – 0#. Moved out BOP and rig pump. RU Swab. 1st run fluid level 4000' from surface. Made 12 runs and recovered 52 bbls. Last run heavily gas cut. Csg - 630# RD Swab. SDFD 4:00PM. Rig crew leaving early to move BOP and rig pump to yard.

11/14/11 – Csg – 725#. Tbg – 495#. RU swab. 1st run fluid level 3700'from surface. Made 28 runs and recovered 80 bbls. 1382 bbls recovered since frac. Last 3 runs well flowed for 5 minutes but not carrying fluid. Last run fluid level 1800' from surface. Csg – 747#. Tbg – light dry blow. RD swab. Shut in tbg. SDFD 5:00PM.

11/15/11 – Csg – 756#. Tbg – 785#. Blew down tbg. RU swab. 1st run fluid level 1700' from surface. Made 20 runs and recovered 52 bbls. Csg – 775#. 1434 bbls recovered since frac. Well continued to flow after 20th run. Let flow for 30 minutes. Csg dropped to 680#. Shut in tbg. Installed 28/64 choke in flow line. Released rig crew for the day 3:30PM. Opened tbg to flowback tank. Monitored flow for 1 hour. Tbg carrying fluid and gas. Csg - 645#. Tbg – 210#. Will leave open to let well continue to cleanup from frac.

11/16/11 – Csg – 385#. Tbg – 120#. Calculated flow rate 568 mcf/d. Stream still fairly wet and slugging fluid occasionally. Recovered 50 bbls overnight. 1484 bbls recovered since frac. Left well flowing through choke.

11/17/11 - Casing - 340#. Tubing - 102#. Made 60 bbls in last 24 hours. Batch treated casing with 15 gallons of corrosion inhibitor to offset the effects of pumping air down the well during the clean out process. Inspected the choke in the flow line and found I was off on the size. Instead of a 28 / 64 , it is a 32 / 64. Using the choke coefficient, the flow rate calculates at 752 mcf/d. Collected a water sample and will take to Cal Frac for analysis, to determine the origin of the water. Will leave the well on for another day to clean up.

11/18/11 – Csg – 358#. Tbg – 48#. Flow to flowback tank carrying less fluid. Made 32 bbls in last 24 hours. 1576 bbls recovered since frac. Calculated flow rate = 405 mcf/d. Higher casing indicates liquid loading. Shut in well. Teftellar Inc scheduled for Monday to RIH and check for fill. Water analysis of sample taken on 11/17 indicate that majority of water currently being produced is from formation, and not the frac.

11/21/11 - Csg -685#. Tbg- 685#. MIRU Tefteller Inc Wireline. RIH with 1.9" gauge ring to SN. Tbg clear. POOH with gauge ring. PU RIH with 1.772" drift. Tagged fill at 8193'. Dakota perfs at 8178' to 8213'. 20' of Dakota perfs covered. 15' open. POOH with drift. RD Teftellar. Opened tbg to flowback tank. Let blow for 1 hour. Csg dropped to 530#. Tbg blowing strong and carrying a light mist. Shut in well.

11/23/11 – Csg – 735#. Tbg – 735#.

Invoice

OLSSON ASSOCIATES

1111 Lincoln Mall
PO Box 84608
Lincoln, NE 68501-4608
Tel 402.474.6311, Fax 402.474.5160

December 06, 2011
Invoice No: 166025

Andy Busch
National Fuel Corporation
8400 East Prentice Ave Ste 1100
Greenwood Village, CO 80111

OA Project No. 011-2426 National Fuel Federal 2-10-84 Pit Closure

Professional services rendered from November 6, 2011 through December 3, 2011.

Phase 100 Federal 2-10-84 Pit Closure

Professional Personnel

		Hours	Rate	Amount	
Principal Engineer/Scientist		1.00	125.00	125.00	
Associate Engineer/Scientist II		7.00	110.00	770.00	
	Totals	8.00		895.00	
	Total Labor				**895.00**
Communication/Reproduction		5.00 % of 895.00		44.75	
	Total Comm/Reprod.			**44.75**	**44.75**

Consultants

Accutest Mountain States, Inc.

11/21/2011	Accutest Mountain States, Inc.	DY-21994		575.00	
	Total Consultants		**1.1 times**	**575.00**	**632.50**
			Total this Phase		**$1,572.25**
			AMOUNT DUE THIS INVOICE		**$1,572.25**

INVOICE PAYMENT IS REQUESTED WITHIN 30 DAYS

Project	011-2426	National Fuel Federal 2-10-84 Pit Closur	Invoice	166025

Authorized By: Dion Plsek

INVOICE PAYMENT IS REQUESTED WITHIN 30 DAYS

ACCUTEST LABORATORIES

Pay this amount: $575.00

Remit to: ACCUTEST MOUNTAIN STATES
Accutest Mountain States, 2235 Route 130 Dayton, NJ 08810 (732) 329-0200 FAX (732) 329-3499
FED ID# 26-3814200

Invoice Number: DY-21994

Invoice Date: 11/21/11

To: Olsson Associates
826 21 1/2 Road
Grand Junction, CO 81505

P.O. Number:

Account Code: CORCCOGJ
Project Code: CORCCOGJ7136

Attn: Dion Plsek

Terms: NET 30

Project description: National Fuel Federal 2-10-84 Pit Closure

QTY	MX	Code	Test	Test Description	T/A	Price	Amount
Job#:		D29082		Proj #: 011-2426			
Date Rec:		11/02/11		Proj Mgr: Dion Plsek			
1	AQ		AG	Silver	5	10.00	10.00
1	AQ		AG	TA Surcharge @ 25%	5	2.50	2.50
1	AQ		AS	Arsenic	5	10.00	10.00
1	AQ		AS	TA Surcharge @ 25%	5	2.50	2.50
1	AQ		B8015DRO	Semi-Volatile TPH (DRO)	5	40.00	40.00
1	AQ		B8015DRO	TA Surcharge @ 25%	5	10.00	10.00
1	AQ		BA	Barium	5	10.00	10.00
1	AQ		BA	TA Surcharge @ 25%	5	2.50	2.50
1	AQ		BRO	Bromide	5	20.00	20.00
1	AQ		BRO	TA Surcharge @ 25%	5	5.00	5.00
1	AQ		CD	Cadmium	5	10.00	10.00
1	AQ		CD	TA Surcharge @ 25%	5	2.50	2.50
1	AQ		CHL	Chloride	5	20.00	20.00
1	AQ		CHL	TA Surcharge @ 25%	5	5.00	5.00
1	AQ		CR	Chromium	5	10.00	10.00
1	AQ		CR	TA Surcharge @ 25%	5	2.50	2.50
1	AQ		CU	Copper	5	10.00	10.00
1	AQ		CU	TA Surcharge @ 25%	5	2.50	2.50
1	AQ		F	Fluoride	5	20.00	20.00
1	AQ		F	TA Surcharge @ 25%	5	5.00	5.00
1	AQ		FE	Iron	5	10.00	10.00
1	AQ		FE	TA Surcharge @ 25%	5	2.50	2.50
1	AQ		FILTERMET	Sample Filtration, Metals	5	0.00	0.00
1	AQ		K	Potassium	5	10.00	10.00
1	AQ		K	TA Surcharge @ 25%	5	2.50	2.50
1	AQ		METDIG	Metals Digestion	5	3.00	3.00
1	AQ		METDIG	TA Surcharge @ 25%	5	0.75	0.75
1	AQ		MG	Magnesium	5	10.00	10.00
1	AQ		MG	TA Surcharge @ 25%	5	2.50	2.50
1	AQ		MN	Manganese	5	10.00	10.00
1	AQ		MN	TA Surcharge @ 25%	5	2.50	2.50
1	AQ		NA	Sodium	5	10.00	10.00
1	AQ		NA	TA Surcharge @ 25%	5	2.50	2.50
1	AQ		NO2	Nitrogen, Nitrite	5	20.00	20.00
1	AQ		NO2	TA Surcharge @ 25%	5	5.00	5.00
1	AQ		NO3O	Nitrogen, Nitrate	5	20.00	20.00

ACCUTEST LABORATORIES

Pay this amount: $575.00

Remit to: ACCUTEST MOUNTAIN STATES
Accutest Mountain States, 2235 Route 130 Dayton, NJ 08810 (732) 329-0200 FAX (732) 329-3499
FED ID# 26-3814200

Invoice Number: DY-21994

Invoice Date: 11/21/11

To: Olsson Associates
826 21 1/2 Road
Grand Junction, CO 81505

P.O. Number:

Account Code: CORCCOGJ
Project Code: CORCCOGJ7136 Terms: NET 30

Attn: Dion Plsek

Project description: National Fuel Federal 2-10-84 Pit Closure

QTY	MX	Code	Test	Test Description	T/A	Price	Amount
1	AQ		NO3O	TA Surcharge @ 25%	5	5.00	5.00
1	AQ		PB	Lead	5	10.00	10.00
1	AQ		PB	TA Surcharge @ 25%	5	2.50	2.50
1	AQ		PH	pH	5	7.00	7.00
1	AQ		PH	TA Surcharge @ 25%	5	1.75	1.75
1	AQ		SCON	Conductance, Specific	5	20.00	20.00
1	AQ		SCON	TA Surcharge @ 25%	5	5.00	5.00
1	AQ		SE	Selenium	5	10.00	10.00
1	AQ		SE	TA Surcharge @ 25%	5	2.50	2.50
1	AQ		SO4	Sulfate	5	20.00	20.00
1	AQ		SO4	TA Surcharge @ 25%	5	5.00	5.00
1	AQ		TDS	Solids, Total Dissolved	5	15.00	15.00
1	AQ		TDS	TA Surcharge @ 25%	5	3.75	3.75
1	AQ		V8015GRO	Volatile TPH (GRO)	5	35.00	35.00
1	AQ		V8015GRO	TA Surcharge @ 25%	5	8.75	8.75
1	AQ		V8260BTX	Benzene, Toluene, Ethylbenzene, Xylenes	5	35.00	35.00
1	AQ		V8260BTX	TA Surcharge @ 25%	5	8.75	8.75
1	AQ		XCARBICALK	Carbonate,Bicarbonate,Alkalinity	5	55.00	55.00
1	AQ		XCARBICALK	TA Surcharge @ 25%	5	13.75	13.75

Job Total: 575.00

Net 575.00

Total for Invoice DY-21994 575.00

Total Due For Invoice 575.00

Approved: DPLSEK 2790
Date: 11/29/11

Project = 011-2426
Phase = 100
Task = 100001

Billing Backup

Tuesday, December 06, 2011

Olsson Associates, Inc. Invoice 166025 Dated 12/6/2011 4:27:16 PM

OA Project No. 011-2426 National Fuel Federal 2-10-84 Pit Closure

Phase 100 Federal 2-10-84 Pit Closure

Professional Personnel

		Hours	Rate	Amount	
Principal Engineer/Scientist					
Plsek, Dion	11/8/2011	1.00	125.00	125.00	
Received, reviewed and forwarded data report, review bid items.					
Associate Engineer/Scientist II					
Hix, James	11/22/2011	.50	110.00	55.00	
Project Mgmt - Form 27 Site Structural Geology					
Hix, James	11/23/2011	.50	110.00	55.00	
Project Mgmt - Form 27 Site Structural Geology					
Hix, James	11/29/2011	.50	110.00	55.00	
Project Mgmt - Form 27 Figures Update					
Hix, James	11/30/2011	5.50	110.00	605.00	
Project Mgmt - Form 27 Figures Update					
Totals		8.00		895.00	
Total Labor					**895.00**

Consultants

Accutest Mountain States, Inc.

AP 97332	11/21/2011 Accutest Mountain States, Inc. / DY-21994			575.00	
	Total Consultants		**1.1 times**	**575.00**	**632.50**
			Total this Phase		**$1,527.50**
			Total this Project		**$1,527.50**
			Total this Report		**$1,527.50**

INVOICE PAYMENT IS REQUESTED WITHIN 30 DAYS

Invoice

Western Petroleum

1521 South 1500 East
P.O. Box 1846
Vernal, Utah 84078
(435) 789-1832

Invoice Number: 0338774-IN
Invoice Date: 12/14/2011

Order Number: 0338774
Order Date 12/14/2011
Salesperson: IDXX
Customer Number: 00-NATI120

Sold To:
NATIONAL FUEL CORPORATION
864 20 ROAD UNIT E
ATTN: ANDY BUSCH
FRUITA, CO 81521
(970) 858-7490
Confirm To:

Ship To: OPGJ
NATIONAL FUEL CORPORATION
1931 I-70 BUSINESS LOOP
GRAND JUNCTION, CO 81501

Customer P.O.	Ship VIA	F.O.B.	Terms	Due Date
	OFFICEPICKUP		NET 30	1/13/2012

Item Number	Unit	Ordered	Shipped	Back Ordered	Price	Amount
232331.990	GAL	110.00	110.00	0.00	14.3510	1,578.61
CHEV GEO HDAX LA 15W40BULK			**Whse:** 008			

Mail Payments To:
Western Petroleum, Inc.
PO Box 708937
Sandy, UT 84070-8937

Net Invoice:	1,578.61
Less Discount:	0.00
Freight:	0.00
Sales Tax:	120.76
Invoice Total:	1,699.37

C

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: NATIONAL FUEL CORPORATION
Operator Account Number: N 8060
Address: 8400 E PRENTICE AVE, SUITE 1100
city GREENWOOD VILLAGE
state CO zip 80111
Phone Number: (303) 220-7772

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304735685	HORSE POINT ST 43-32		NESE	32	15S	23E	GRAND
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
E	14230	14230 ✓				11/23/2011	
Comments: CHANGE PRODUCING ZONE FROM DKTA TO DKMNC — 12/28/11							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
Comments:							

ACTION CODES:

- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

Rose Greenfield
Name (Please Print)
Rose Greenfield
Signature
Controller
Title
12/28/2011
Date

RECEIVED
DEC 2 8 2011
DIV. OF OIL, GAS & MINING

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-46629

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
HORSE POINT ST 43-32

2. NAME OF OPERATOR:
NATIONAL FUEL CORPORATION

9. API NUMBER:
43047356850000

3. ADDRESS OF OPERATOR:
8400 E Prentice Avenue Suite 735 , Greenwood Village, CO, 80111

PHONE NUMBER:
970 260-8128

9. FIELD and POOL or WILDCAT:
HORSE POINT

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1650 FSL 0510 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESE Section: 32 Township: 15.0S Range: 23.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 6/25/2013	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	✓ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This sundry notice is being submitted for notification of National Fuel Corporation's (NFC) plans to set a permanent plug to permanently isolate the Dakota formation from the wellbore. Retrievable bridge plug will be removed at 8000'. A cast iron bridge plug will be placed at 8100' with 8 sacks of Class "G" cement placed on top to isolate Dakota perfs at 8178' to 8300'.

Approved by the Utah Division of Oil, Gas and Mining

Date: July 19, 2013

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andrew Busch	970 260-8128	VP Operations
SIGNATURE		**DATE**
N/A		6/25/2013

RECEIVED: Jun. 25, 2013

Sundry Number: 39311 API Well Number: 43047356850000

Reset Form

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-46629

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

7. UNIT or CA AGREEMENT NAME: NA

1. TYPE OF WELL — OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: Horse Point State #43-32

2. NAME OF OPERATOR: National Fuel Corporation

9. API NUMBER: 4304735685

3. ADDRESS OF OPERATOR: 8400 E. Prentice, #1100 CITY Greenwood Village STATE Co ZIP 80111

PHONE NUMBER: (303) 220-7772

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 510 fel, 1650 fsl

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 15S 23E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 6/25/2013	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☑ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This sundry notice is being submitted for notification of National Fuel Corporation's (NFC) plans to set a permanent plug to permanently isolate the Dakota formation from the wellbore.

Retrievable bridge plug will be removed at 8000'. A cast iron bridge plug will be placed at 8100' with 8 sacks of Class "G" cement placed on top to isolate Dakota perfs at 8178' to 8300'.

NAME (PLEASE PRINT) Andrew Busch TITLE V.P. of Operations

SIGNATURE DATE 6/24/2013

(This space for State use only)

(5/2000) (See Instructions on Reverse Side)

RECEIVED: Jun. 25, 2013

INSTRUCTIONS

This form shall be submitted by the operator to show the intention and/or completion of the following:

- miscellaneous work projects and actions for which other specific report forms do not exist;
- all other work and events as identified in section 11, Type of Action, or as required by the Utah Oil and Gas Conservation General Rules, including:
  - minor deepening of an existing well bore,
  - plugging back a well,
  - recompleting to a different producing formation within an existing well bore (intent only),
  - reperforating the current producing formation,
  - drilling a sidetrack to repair a well,
  - reporting monthly the status of each drilling well.

This form is not to be used for proposals to

- drill new wells,
- reenter previously plugged and abandoned wells,
- significantly deepen existing wells below their current bottom-hole depth,
- drill horizontal laterals from an existing well bore,
- drill hydrocarbon exploratory holes such as core samples and stratigraphic tests.

Use Form 3, Application for Permit to Drill (APD) for such proposals.

NOTICE OF INTENT - A notice of intention to do work on a well or to change plans previously approved shall be submitted in duplicate and must be received and approved by the division before the work is commenced. The operator is responsible for receipt of the notice by the division in ample time for proper consideration and action. In cases of emergency, the operator may obtain verbal approval to commence work. Within five days after receiving verbal approval, the operator shall submit a Sundry Notice describing the work and acknowledging the verbal approval.

SUBSEQUENT REPORT - A subsequent report shall be submitted to the division within 30 days of the completion of the outlined work. Specific details of the work performed should be provided, including dates, well depths, placement of plugs, etc.

WELL ABANDONMENT - Proposals to abandon a well and subsequent reports of abandonment should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, and method of parting of any casing, liner, or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

In addition to any Sundry Notice forms submitted, **Form 8, Well Completion or Recompletion Report and Log** must be submitted to the division to report the results of the following operations:

- completing or plugging a new well,
- reentering a previously plugged and abandoned well,
- significantly deepening an existing well bore below the current bottom-hole depth,
- drilling horizontal laterals from an existing well bore,
- drilling hydrocarbon exploratory holes such as core samples and stratigraphic tests,
- recompleting to a different producing formation.

Send to:

Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

RECEIVED: Jun. 25, 2013